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U. S. Department of Agriculture

1924

DESCRIPTIVE SUPPLEMENT

— *To Our* —

SEED CATALOGUE

INSECTICIDES

SPRAY PUMPS

SPRayers

INCUBATORS

BROODERS

POULTRY SUPPLIES

CONKEY'S MASHES

CONKEY'S REMEDIES

DISINFECTANTS

PLANTS - BULBS

NURSERY STOCK

FERTILIZERS

IMPLEMENTs

LAWN TOOLS

PAINTS

VARNISHES

BARRETT HARDWARE Co.

BARRETT BLOCK

JOLIET, ILLINOIS

BARRETT'S BULK GARDEN SEED DEPARTMENT



LEONARD'S *GARDEN SEED IN BULK ARE THE BEST BY TEST*

OVER 5,000 MARKET GARDENERS AROUND THE CITY OF CHICAGO USE
LEONARD'S BULK SEEDS EVERY YEAR, AND PREFER THEM
TO ALL OTHER KINDS

QUANTITY PRICES QUOTED ON APPLICATION

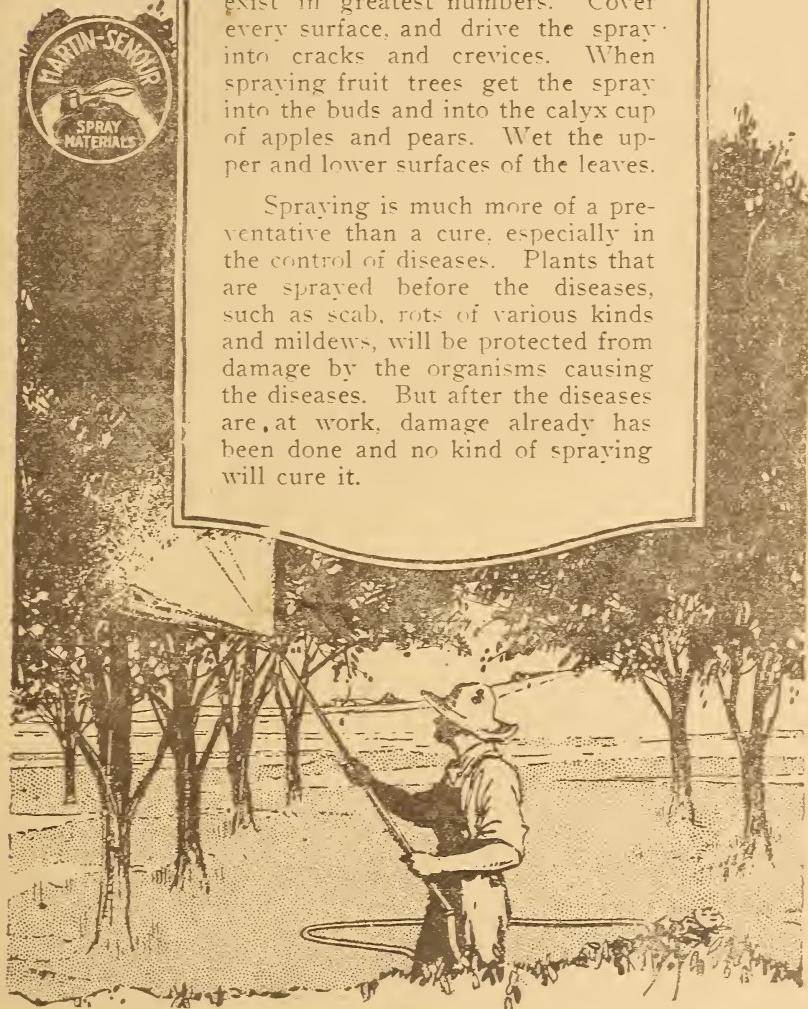
NOTICE: THE PRICES QUOTED ON ALL SEEDS AND GOODS LISTED IN THIS SUPPLEMENT REPRESENT VALUES AT THE TIME OF GOING TO PRESS. WE AIM TO GIVE OUR CUSTOMERS THE BENEFIT OF THE LOWEST PRICES THAT MARKET CONDITIONS WILL WARRANT. THEREFORE WE RESERVE THE RIGHT TO CHANGE OUR PRICES WITHOUT FURTHER NOTICE.

Introduction

SPRAYING is the most important operation on the farm, and it is only by spraying with suitable materials that most of the troublesome insect pests and fungous diseases of fruit trees and garden crops can be controlled. Spraying, likewise, with the right materials, will protect the health of live stock, by controlling pests which infest their skin and by maintaining their quarters in a sanitary condition.

There is no one spray that will cure everything. Use the spray that will best fit your case. Spray thoroughly. Direct your attention to the parts that are hardest to reach, for it is in such places that the pests are most liable to exist in greatest numbers. Cover every surface, and drive the spray into cracks and crevices. When spraying fruit trees get the spray into the buds and into the calyx cup of apples and pears. Wet the upper and lower surfaces of the leaves.

Spraying is much more of a preventative than a cure, especially in the control of diseases. Plants that are sprayed before the diseases, such as scab, rots of various kinds and mildews, will be protected from damage by the organisms causing the diseases. But after the diseases are at work, damage already has been done and no kind of spraying will cure it.



Spray Calendar for Control of Insects and Fungous Diseases of Fruits and Vegetables

Fruit	Insect or Disease	What to Use	Dillution* (See bottom of page)	When to Spray
APPLE	San Jose Scale	Dry Lime-Sulfur	12 to 15 lbs.	In fall after leaves drop or in spring when trees are dormant
	Oyster Shell Scale	Dry Lime-Sulfur	12 to 15 lbs.	In fall after leaves drop or in spring when trees are dormant
	Scurfy Scale	Dry Lime-Sulfur	12 to 15 lbs.	In fall after leaves drop or in spring when trees are dormant
	Apple Aphis	Spra-Mulsion	3 to 4 gals.	When buds are showing tip-green
	Codling Moth	Dry Arsenate of Lead	1 to 1½ lbs.	(1) At fall of the blossoms, before the calyx closes (2) Three weeks after fall of the blossoms (3) Ten weeks after fall of the blossoms (4) Fourteen weeks after fall of the blossoms (5) Seventeen weeks after fall of the blossoms
	Curculio	Dry Arsenate of Lead	1 to 1½ lbs.	(1) Just before bloom, in cluster-bud (2) At fall of blossoms (3) Three or four weeks later (4) Ten weeks after fall of the blossoms
	Apple Maggot	Dry Arsenate of Lead	1 to 2 lbs.	(1) Last week in July (2 & 3) Three and six weeks later
	Red Bugs	Nicotine Sulfate Soap	½ pint 2½ lbs.	(1) Just before blossoms in cluster bud (2) At fall of blossoms
	Bud Moth	Dry Arsenate of Lead	1 to 1½ lbs.	(1) When flower clusters first appear (2) Just before blossoms open
	Canker Worm	Dry Arsenate of Lead	1 to 2 lbs.	(1) Just before bloom in cluster-bud (2) At fall of blossoms
	Apple-Tree Tent Caterpillar	Dry Arsenate of Lead	1½ to 2 lbs.	When worms first appear
	Anthracnose	Dry Bordo	9 lbs.	(1) About September 15th (2) As soon as fruit is picked (3) Two or three weeks later
	Bitter Rot	Dry Bordo	9 lbs.	Spray about the middle of June and keep fruit coated the rest of the season
	Black Rot	Dry Bordo	9 lbs.	(1) About mid-July (2) Two weeks later
	Blotch	Dry Lime-Sulfur Dry Bordo	4 lbs. 7 to 9 lbs.	(1) Two to three weeks after fall of blossoms (2) Five weeks after fall of blossoms
CHERRY	Powdery Mildew	Dry Lime-Sulfur	3 lbs.	(1) At the fall of the blossoms (2) Three weeks later In extreme cases, two additional applications at three-week intervals may be required
	Cedar Rust			Cut down cedars within one mile of orchard
	Scab	Dry Lime-Sulfur Dry Bordo	3 to 4 lbs. 7 lbs.	(1) Just before blossoms in cluster bud (2) At fall of blossoms (3) Within a week or ten days later (4) Latter part of July in Atlantic States if weather is cool and wet
	Sooty Blotch	Dry Bordo	9 lbs.	Apply the middle of July
	Fruit Flies	Dry Arsenate of Lead	1 to 1½ lbs.	(1) Early in June (2) Mid-June
	Curculio	Dry Arsenate of Lead	1 to 1½ lbs.	(1) Just before the blossom buds open (2) At fall of blossoms (3) A week to ten days later
	Cherry Slug	Dry Arsenate of Lead	1 to 1½ lbs.	When slugs appear
	Cherry Aphis	Nicotine Sulfate Soap	½ pint 2 lbs.	As soon as lice appear, but before leaves curl
	Brown Rot	Dry Lime-Sulfur	1 to 1½ lbs.	(1) Just before the bloom (2) At fall of blossoms (3) A week to ten days later (4) When fruit begins to color
	Leaf Spot	Dry Lime-Sulfur	1 to 1½ lbs.	(1) At fall of calyx (2) Ten days to two weeks later (3) Directly after fruit is picked, and three weeks later

*To 50 gals. water

BARRETT HARDWARE CO., JOLIET, ILL.

Spray Calendar for Control of Insects and Fungous Diseases of Fruits and Vegetables—Continued

Fruit	Insect or Disease	What to Use	Dilution* (See bottom of page)	When to Spray
CURRANT AND GOOSEBERRY	Currant Worm	Dry Arsenate of Lead	1 to 1½ lbs.	When worms first appear
	San Jose Scale	Dry Lime-Sulfur	12 to 15 lbs.	Early in spring while plants are dormant
	Currant Plant Louse	Nicotine Sulfate Soap	½ pint 2 lbs.	As soon as eggs hatch in spring, but before leaves curl
	Anthracnose	Dry Lime-Sulfur Dry Bordo	3 to 4 lbs. 9 lbs.	(1) When leaves are unfolding (2) Every ten days to two weeks until five or six sprays have been applied
	Leaf Spot	Dry Lime-Sulfur	3 to 4 lbs.	Same as Anthracnose
GRAPE	Powdery Mildew	Dry Lime-Sulfur	3 to 4 lbs.	(1) When buds burst (2) At ten-day intervals until five applications have been made
	Rose Chafer	Dry Arsenate of Lead Molasses	2 lbs. 1 gal.	At first appearance of beetles and one week later if beetles are still present
	Flea Beetle	Dry Arsenate of Lead	1 to 1½ lbs.	Between middle of June and middle of July
	Leaf Hopper	Nicotine Sulfate Soap	1½ pints 2 lbs.	Early in July
	Grape Berry Moth	Dry Arsenate of Lead	1½ lbs.	(1) Just before fruit sets (2) About ten days later (3) Mid-July
PEACH	Grape Root Worm	Dry Arsenate of Lead	1½ lbs.	(1) Soon after beetles appear (2) Ten days later
	Black Rot	Dry Bordo	7 to 9 lbs.	(1) When second or third leaf is showing (2) Before the blossoms open (3) After fall of blossoms (4) About ten days to two weeks later (5) Again in ten to fourteen days
	Powdery Mildew	Superfine Dusting Sulfur		(1) When shoots are six to eight inches long (2) Just before or during bloom (3) On very susceptible varieties (California) about the time the grapes are half grown
	San Jose Scale	Dry Lime-Sulfur	12 to 15 lbs.	In fall after leaves drop or spring before buds swell
	Peach Tree Borer			Dig out borers in June and September
PEAR	Peach Twig Borer	Dry Lime-Sulfur	12 to 15 lbs.	Just after buds begin to swell
	Curculio	Dry Arsenate of Lead Lime	1 to 1½ lbs. 3 lbs.	(1) When first shucks are pushing off (2) Again when all shucks are off (3) Three or four weeks after fall of blossoms
	Brown Rot	Self-Boiled Lime and Sulfur	8 lbs. of each	(1) When all shucks are off (2) Three or four weeks after fall of blossoms (3) Four weeks before fruit is ripe Should weather turn damp and warm near ripening time, keep fruit well coated with spray
	Scab	Self-Boiled Lime and Sulfur	8 lbs. of each	Spraying for Brown Rot controls Scab
	Leaf Curl	Dry Lime-Sulfur	12 to 15 lbs.	Either in fall after leaves drop or in spring before buds swell
PLUM	San Jose Scale	Dry Lime Sulfur	12 to 15 lbs.	In fall after leaves drop or in spring before buds burst
	Slug	Dry Arsenate of Lead	1 lb.	When slugs appear
	Pear Psylla	Spra-Mulsion Dry Lime-Sulfur	3 to 4 gals. 12 to 15 lbs.	(1) On warm days in November, December, March or April (2) When cluster-buds are separating at tips
	Pear Thrips	Nicotine Sulfate Soap	½ pint and 2½ lbs.	(1) When first buds begin to open (2) At the fall of the blossoms
	Pear Leaf Blister Mite	Dry Lime-Sulfur or Spra-Mulsion	12 to 15 lbs. 3 to 4 gals.	In fall after leaves drop, or in the spring before the buds burst
VEGETABLES	Pear Blight	No Spray Remedy		Cut out and disinfect
	Scab	Dry Lime-Sulfur or Dry Bordo	3 to 4 lbs. 9 lbs.	(1) When leaf buds are unfolding (2) Just before flower-buds open (3) At the fall of the blossoms
	San Jose Scale	Dry Lime-Sulfur	12 to 15 lbs.	In spring before buds burst

*To 50 gals. water

BARRETT HARDWARE CO., JOLIET, ILL.

Spray Calendar for Control of Insects and Fungous Diseases of Fruits and Vegetables—Continued

Fruit or Vegetable	Insect or Disease	What to Use	Dilution* (See bottom of page)	When to Spray
PLUM	Curculio	Dry Arsenate of Lead Lime	1 to 1½ lbs. 2 to 3 lbs.	(1) Just before blossom-buds open (2) At fall of blossoms (3) A week or ten days later
	Gouger	Dry Arsenate of Lead Lime	1 to 1½ lbs. 2 to 3 lbs.	Same as for Curculio, except apply an extra spray before the bloom
	Brown Rot	Dry Lime-Sulfur	1 to 1½ lbs.	(1) Just before buds open (2) Immediately after blossoms fall (3) Ten days to two weeks later If season is wet, spray every two weeks until month before picking time
	Leaf Blight	Dry Lime-Sulfur	1 to 1½ lbs.	(1) Ten days after fall of blossoms (2) Three weeks later (3) Six weeks after fall of blossoms
RASPBERRY	Rose Scale	Dry Lime-Sulfur	12 to 15 lbs.	Late in winter
	Anthracnose	Dry Lime-Sulfur or Dry Bordo	3 to 4 lbs. 7 lbs.	(1) When new shoots are six inches high (2) When ten inches high (3) Just before blossoms
STRAWBERRY	Strawberry Weevil	Dry Arsenate of Lead	1 to 1½ lbs.	When flowers are in the bud
	Leaf Roller	Dry Arsenate of Lead	1½ lbs.	A week after moths appear
	Slug	Dry Arsenate of Lead	1 to 1½ lbs.	When the worms appear, when berries are half-grown
	Leaf Spot	Dry Bordo	7 to 9 lbs.	(1) Before blossoms open (2) Ten days to two weeks later
ORANGE, GRAPEFRUIT AND LEMON	Red Spiders and Mites	Dry Lime-Sulfur	3 to 4 lbs.	When spiders are numerous
	Brown Rot	Dry Bordo	4 to 5 lbs.	During winter
ASPARAGUS	Asparagus Beetle	Dry Arsenate of Lead	6 lbs.	Leave every tenth row uncut and spray from both sides. Apply three or four sprays at frequent intervals
	Rust			Spraying of little value. Plant resistant varieties
BEAN	Bean Ladybird	Dry Arsenate of Lead	2 lbs.	When beetles and eggs appear
	Bean Weevil	Carbon Bisulfide	1 oz. to 100 lbs. of seed	Fumigate seed
	Anthracnose	Dry Bordo	9 lbs.	While cotyledons or original seed parts are still in seedlings
BEET	Blight			Plant healthy seed
	Leaf Spot	Dry Bordo	7 lbs.	Early in spring when plants are small
CABBAGE AND CAULI- FLOWER	Cabbage Worms	Dry Arsenate of Lead Soap	1 lb. 5 to 6 lbs.	When worms appear. Force spray into center of plants
	Cabbage Looper	Dry Arsenate of Lead Soap	1 lb. 5 to 6 lbs.	When worms appear, and force spray into center of the plants
	Cabbage Aphid	Nicotine Sulfate Soap	½ pint 5 to 6 lbs.	When lice first appear
		Dry Bordo	7 lbs.	Spray frequently
CELERY	Early and Late Blight			Soon after silk appears and every week until corn is picked
CORN	Corn Ear Worm	S-W 50-50 Dusting Mixture	50 lbs. each of Sulfur and Arsenate of Lead	
CUCUMBER	Striped Cucumber Beetle	Bordo Arsenate	7 lbs.	Spray frequently to repel beetles
	Wilt			Disease carried by cucumber beetles. Therefore, keep beetles away from vines
EGGPLANT	Flea Beetle	Bordo Arsenate	7 lbs.	Frequent applications
MUSKMELLON CANTALOUPE	Striped Cucumber Beetle	Same as for Cucumber		
	Wilt	Same as for Cucumber		Plant rust-resistant varieties
ONION	Rust	Nicotine Sulfate Soap	½ pint 2½ lbs.	When lice appear. Spray underside of leaves
	Aphis	Nicotine Sulfate Soap	½ pint 2½ lbs.	Spray frequently in crotch of plants
	Thrips	40% Formaldehyde	3 pints	Apply as drip at seeding time
	Smut	Dry Bordo	7 lbs.	Spray frequently
MILD	Mildew	Dry Bordo	7 lbs.	Spray two or three times during fruiting season
PEPPER	Rot	Dry Bordo	7 lbs.	

*To 50 gals. water

BARRETT HARDWARE CO., JOLIET, ILL.

Spray Calendar for Control of Insects and Fungous Diseases of Fruits and Vegetables—Continued

Vegetable	Insect or Disease	What to Use	Dilution* (See bottom of page)	When to Spray
POTATO	Colorado Potato Beetle	Dry Arsenate of Lead or Potato Spray	1 to 2 lbs. 1½ to 3 lbs.	When eggs hatch and thereafter until insects disappear
	Flea Beetle	Bordo Arsenate	9 lbs.	Spray frequently as repellent
	Aphis	Nicotine Sulfate Soap	½ pint 2½ lbs.	When lice appear
	Scab	Corrosive Sublimate	4 oz. to 30 gals. of water	Soak uncut potatoes for 30 minutes
	Black Scurf	Corrosive Sublimate	4 oz. to 30 gals. of water	Soak uncut potatoes for 30 minutes
	Late Blight	Potato Spray	1½ to 3 lbs.	Begin when plants are six inches high, and thereafter at ten-day intervals until four or five sprays have been applied
	Early Blight	Potato Spray	1½ to 3 lbs.	Begin when plants are six inches high, and thereafter at ten-day intervals until four or five sprays have been applied (Spraying is claimed to slightly check tip-burn)
	Tip-Burn (Not a disease)	Potato Spray	1½ to 3 lbs.	
SQUASH	Striped Cucumber Beetle	Bordo Arsenate	7 lbs.	Spray frequently to repel beetles
	Squash Bug	Nicotine Sulphate Soap	½ pint 2½ lbs.	When young bugs appear
SWEET POTATOES				Sweet Potato diseases are not controlled by spraying, but by (1) Disinfecting of seed. (2) Seed selection. (3) Rotation
TOMATO	Tomato Worms	Dry Arsenate of Lead	1 to 1½ lbs.	When worms appear
	Leaf Spot	Dry Bordo	7 lbs.	At setting time and two-week intervals up into picking season
	Wilt			Not controlled by spraying
	Blossom-End Rot			Not a disease. Due to lack of moisture

*To 50 gals. water

Mix all ingredients separately in a quart of water and strain through cheese cloth, then add water to complete formula. Use level tablespoon or 4 level teaspoons for each level tablespoon.

WHITEWASHING SOLUTION (U. S. Government Formula)

Slack $\frac{1}{2}$ bushel of quick lime with boiling water (keeping it covered during the process), strain and add a peck of salt dissolved in warm water, 3 pounds of ground rice which has been boiled to a thin paste, $\frac{1}{2}$ pound of Spanish whiting and 1 pound of clear glue dissolved in warm water. Mix these materials well together and let stand for several days. Dilute with sufficient water to flow freely, straining the wash through a piece of cheese cloth into the sprayer tank. A small quantity of laundry bluing will add to the whiteness of the surface.

Notice to Home Gardeners

In order to assist the small fruit grower and gardener the following schedule is presented which will give in level tablespoons the proper quantity of insecticide or fungicide to use in one gallon of water.

M-S Dry Arsenate of Lead

Seed Fruits and Truck Crops:

4 to 6 tablespoons in one gallon of water.

Stone Fruits:

4 tablespoons in one gallon of water.

Potatoes:

6 to 8 tablespoons in one gallon of water.

M-S Dry Lime-Sulfur

Dormant Spray:

16 to 22 tablespoons in one gallon of water.

Summer Spray—Seed Fruits:

4 to 5 tablespoons in one gallon of water.

Summer Spray—Stone Fruits(except Peaches):

2 tablespoons and 6 tablespoons of hydrated lime

M-S Arsenate of Calcium

Seed Fruits and Truck Crops:

4 to 6 tablespoons in one gallon of water.

Potatoes:

6 to 8 tablespoons in one gallon of water.

M-S Paris Green

Potatoes:

1 to 3 teaspoons in one gallon of water, and 6 tablespoons of hydrated lime.

M-S Bordo Arsenate

General Truck Crops and Seed Fruits:

12 to 15 tablespoons in one gallon of water.

Stone Fruits (except Peaches):

10 tablespoons in one gallon of water.

Pyrox

REG. U. S. PAT. OFF.
TRADE MARK REGISTERED

What It Is:

—a powerful fungicide; it helps to control most fungous diseases, even some of the serious ones which are difficult to control.

—a strong poison insecticide; it kills most chewing insects.

Over twenty years of practical farm use has proved Pyrox the most effective remedy against both serious fungous diseases and chewing insects. It contains the essential copper in proper quantity for safe use and in most active form for greatest fungicidal effect. In Pyrox the poison insecticide is chemically blended with the copper fungicide which increases the effectiveness of both.

What It Does:

—It saves labor; it is easy to use, simply mix with cold water and spray.

—It goes farther than the ordinary spray; it is so smooth and fine that the finest nozzle can be used without clogging. The resulting mist-like spray covers more surface.

—It gives more thorough protection. It should be put on with a fine nozzle because when applied in the finest mist it covers more thoroughly every part of the leaf or fruit.

—It gives more lasting protection; it sticks like paint and stays on for weeks. Even hard rains do not wash it off once it is thoroughly dry.

—It increases yields; the copper fungicide in Pyrox stimulates the leaves, makes them greener and more vigorous, and helps to increase yields even when there is no disease.

“Never Saw A Bug”

“The potatoes that I sprayed with Pyrox kept green until the frost killed them, without a sign of blight. I never saw a bug on them after using Pyrox. It is easier to apply than any mixture I have ever used, and will not wash off in the heaviest showers.”—L. A. LITTLEFIELD, winner of the first prize of \$200 in a Maine potato growing contest.

Pyrox

REG. U. S. PAT. OFF.
TRADE MARK REGISTERED

“The Spray
that Adds to
Your Profit”

kills the bugs as fast as they appear, and prevents blight and rot. Use it on the young plants before bugs or blights get their start.

Get this Pyrox Crop Book. It tells how to protect your crops against bugs, worms and disease. Ask for a copy.



Spray Early and Save Your Crops

We highly recommend the Martin-Senour Line
of Insecticides and Fungicides

DRY LIME-SULFUR

The use and success of Lime-Sulfur Solution is known to practically every fruit grower in the country, and every grower is also familiar with the inconveniences and unpleasantness in connection with the handling of Liquid Lime-Sulfur. The barrels are very heavy to handle—they contain over 50 per cent water, which means heavy freight charge. Liquid Lime-Sulfur freezes in cold weather and leaks from the barrel in summer, and all in all is very unpleasant to handle. Martin-Senour Dry Lime-Sulfur is standard Lime-Sulfur Solution in dry powdered form—the first and only one of its kind on the market. It has all the advantages of the liquid material, and eliminates the disadvantages. Its effectiveness has been proven by thousands of orchardists and Experiment Stations.

Protected by U. S. Patent No. 1,254,908.

Price—Market

DRY POWDERED ARSENATE OF LEAD

Because of its unusual lightness, stays thoroughly in suspension during spraying operations, thus giving the spray uniform strength. It contains from 30 to 33 per cent arsenic oxide thoroughly in combination with lead and less than one per cent water soluble arsenic. This means that it has maximum killing power, speedy action and unquestionable effectiveness in controlling leaf-eating and chewing insects, and, due to its low percentage of water soluble arsenic, there is no danger of burning the foliage. Its unusual adhesiveness is another point in its favor.

Price—Market

DRY BORDO

Martin-Senour Dry Bordo is a true Bordeaux Mixture in dry powdered form, requiring only to be mixed with cold water to give a standard Bordeaux Mixture spray. The convenience and value of having Bordeaux Mixture in dry powdered form will be instantly recognized by all fruit growers.

Price—Market

SUPERFINE SULFUR

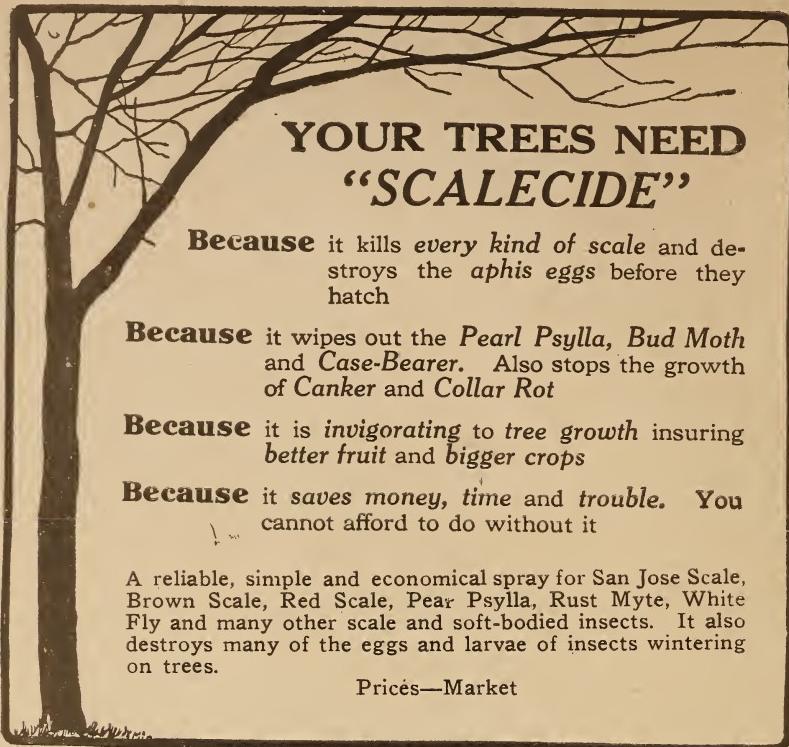
Many growers will prefer to make up their own dusting combination, and we are in position to supply such growers with Martin-Senour Superfine Dusting Sulfur and Martin-Senour Dry Powdered Arsenate of Lead for this work. Martin-Senour Superfine Dusting Sulfur is so finely divided that over 95 per cent will pass through a 200-mesh screen. Fineness is an important factor in successful dusting and the wise fruit grower will be careful to use a Sulfur and Arsenate of Lead that is very finely divided.

Prices—Market

PARIS GREEN

Martin-Senour Paris Green has by years of use proven its quality. It has become the standard Paris Green in many localities. It is light and fluffy, insuring good suspension in the spray tank and thorough covering of the foliage; contains approximately 56 per cent arsenious oxide and less water soluble arsenic than is allowed by law. It is one of the safest and most effective Paris Greens on the market today.

Price—Market



**YOUR TREES NEED
“SCALECIDE”**

Because it kills *every kind of scale* and destroys the *aphis eggs* before they hatch

Because it wipes out the *Pearl Psylla, Bud Moth* and *Case-Bearer*. Also stops the growth of *Canker* and *Collar Rot*

Because it is *invigorating* to *tree growth* insuring *better fruit* and *bigger crops*

Because it *saves money, time and trouble*. You cannot afford to do without it

A reliable, simple and economical spray for San Jose Scale, Brown Scale, Red Scale, Pear Psylla, Rust Myte, White Fly and many other scale and soft-bodied insects. It also destroys many of the eggs and larvae of insects wintering on trees.

Prices—Market

“Black Leaf 40” TO DESTROY APHIS

WHAT “BLACK LEAF 40” IS

“Black Leaf 40” is a concentrated solution of nicotine sulphate, guaranteed to contain not less than 40% of nicotine by weight. It is perfectly soluble in cold water; does not clog the nozzle nor corrode the spray outfit; does not stain nor injure plants when used according to directions on the labels. It is highly recommended by Agricultural Colleges and Experiment Stations in Official Bulletins.

Price—Market

TREE TANGLEFOOT

A perfect safeguard against Gypsy Moth, Brown Tail and Tussock Moth, Caterpillars, Canker Worms, Cut Worms, Ants and other creeping insects. For tree surgery—nothing better on the market. It is unequalled for the treatment of trees after trimming or pruning.

1 lb. Can 60c 5 lb. Can \$2.75

TANGLEFOOT ROACH AND ANT POWDER

Is more certain to rid premises of Roaches and Ants than any irritating powder or liquid.

2 oz. Pkg. 10c $\frac{1}{2}$ lb. Pkg. 25c
1 lb. Pkg. 50c



For Spraying Time

Don't let little hidden pests rob you of a big part of your vegetable crop or ruin your flowers and shrubs or prevent your hens from laying as they should—use disinfectant and sprays. Whether your spraying job is large or small, we have the right size sprayer for your work—a complete line of hand and power sprayers at reasonable prices are ready here for you and we have the various sprays too for all purposes.

The Myers Little Giant and Cog Gear Brass Bucket Spray Pumps

Fitted with Patent Agitator and
Return Overflow Cap

DETACHABLE HOSE
BRASS BALL VALVES

Each Bucket Spray Pump put up in
separate shipping carton.

Price

No. 327 $\frac{1}{2}$ \$5.00

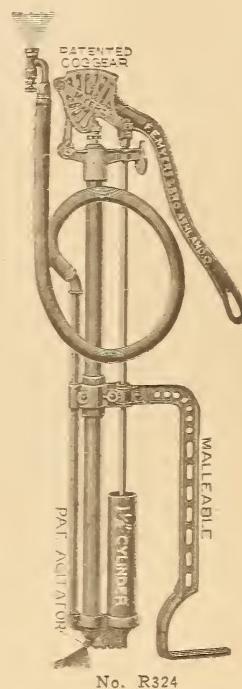
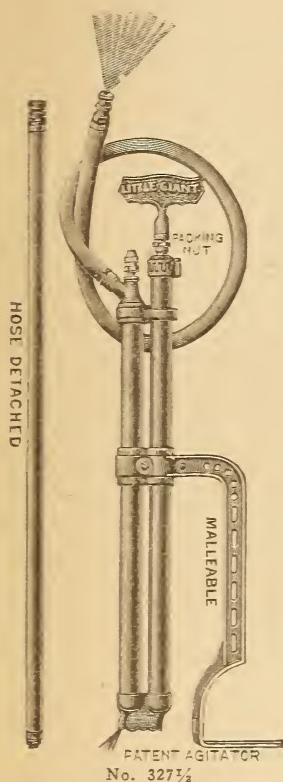
No. R-324 \$7.75

Use Pipe Extension

Extra Hose, less Nozzle \$1.50

4 ft. Iron Pipe Extension 40c

8 ft. Iron Pipe Extension 60c



No. 327 $\frac{1}{2}$ spray pumps are constructed entirely of brass. They are so arranged that the labor of pumping is all done on the down stroke of the piston and nothing on the up.

They are provided with a large air chamber and brass ball valves. The nozzle throws a continuous spray, and is not affected by the movement of the plunger. Will throw a solid stream 50 feet, and are of unusual value for spraying trees, washing windows and buggies, extinguishing fires, sprinkling lawns, flowers, etc. For spraying, they are arranged to discharge a fine jet in the bottom of the bucket to keep the solution thoroughly mixed and agitated. The pumps are also provided with a sprinkler for flowers.

No. R324 illustrates the Myers Bucket Spray Pump with Cog Gear Handle. This pump has 1 $\frac{1}{2}$ inch diameter brass cylinder with solid plunger, brass ball valves, brass air chamber and discharge tube. The foot rest, head and cog gear handle are malleable iron. The large cylinder in combination with the cog gear handle makes this an exceptionally easy working pump of more than ordinary capacity. Has patented jet agitator which keeps liquids thoroughly mixed.

A Spray Pump Without an Agitator Is Not Practical

The Myers Cog Gear Barrel Spray Pump

WITH MALLEABLE IRON BASE

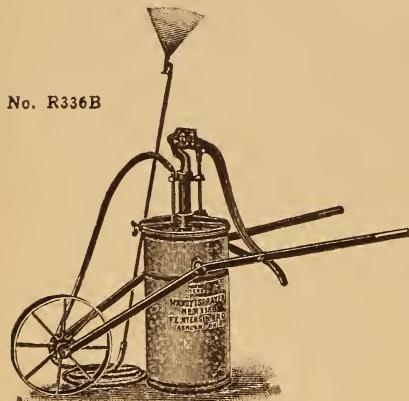
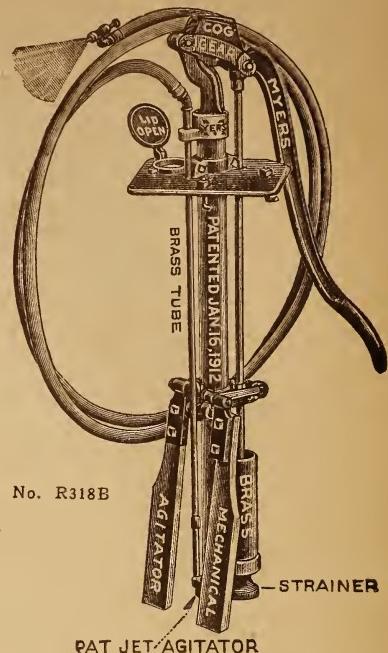
Cylinder, Valves, Valve Seats and Discharge All Brass 2 Inch Cylinder
All Working Parts Submerged in Liquid, Hence No Priming Necessary
Has Mechanical and Jet Agitators Size of Hole to Cut in Barrel 8x8 Inches

The construction is such that the entire pump sets inside the barrel containing the liquid, being bolted fast at its upper end to the head of the barrel. By this arrangement the working parts are entirely submerged in the liquid that is to be sprayed, thereby avoiding all possibilities of losing priming, doing away with the necessity of a suction pipe, placing the agitator in the bottom of the liquid in a simple form, and also doing away with a large number of complicated parts. Base fits 8x8 inch hole.

Has Bronze Ball Valves and Brass Seats. The plunger is self-expanding. Will handle any caustic mixture. The cylinder and discharge pipes are all brass. The air chamber is 32 inches in length, enabling the pump to throw a uniform, constant and elastic spray. It has good leverage, is very powerful and easily operated.

Price Complete with one lead of 15 ft. 5 ply $\frac{1}{2}$ in. Discharge Hose and Graduated Nozzle \$18.00

ALWAYS USE PIPE EXTENSION—YOU GET BETTER RESULTS



The Myers Portable Sprayer

Generally Recommended for Outside Work

The pump is similar to No. R318B fitted with cog gear handle and dasher agitator. It is securely attached to the tank by means of a clamp connected direct to the channel iron that surrounds the top of the tank held in position by one thumb screw. The handle can be located at any point desired.

Price of No. R336B with Dasher Agitator, 15 ft. of $\frac{1}{2}$ in. 5 ply Discharge Hose, 8 ft. Extension with Vermorel Nozzle \$30.00

Use Myers Spray Pumps for Spraying Cattle and Hogs to remove Ticks or Lice. Much Cheaper Than Building a Vat and Just as Effective.

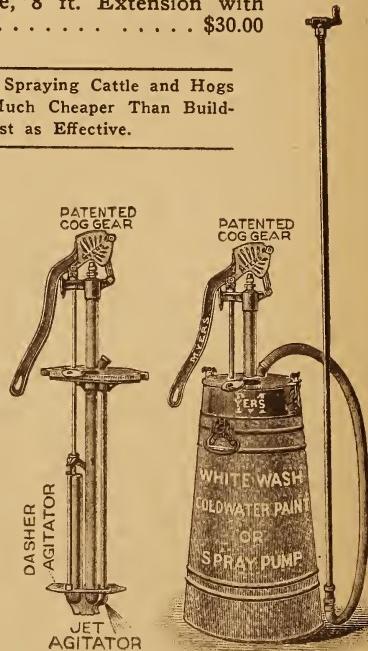
The Myers Whitewash, Cold Water Painting Machine and General Purpose Sprayer

With Easy Operating Cog Gear Pump, Fitted with Patent Double Agitator

No. R329 represents the Myers Whitewash, Cold Water Painting Machine and General Purpose Sprayer, with patent Double Agitator—a most complete and serviceable outfit. The tank is made of heavy galvanized iron with a wide bottom so as to set steady in operation. The cover is removable and is held securely in place by two thumb nuts, one on each side, which holds the cover tight and prevents spilling or splashing of the liquid. Holds 7 gallons.

The pump is our No. R324 Cog Gear Bucket Spray Pump, fitted with Bordeaux nozzle, brass ball valves, and has both jet and dasher agitators. Cog Gear increases leverage, 33 1-3%.

Price Complete with 8 ft. Pipe Extension, \$15.00



The Myers Junior LOW DOWN Power Spray Rig

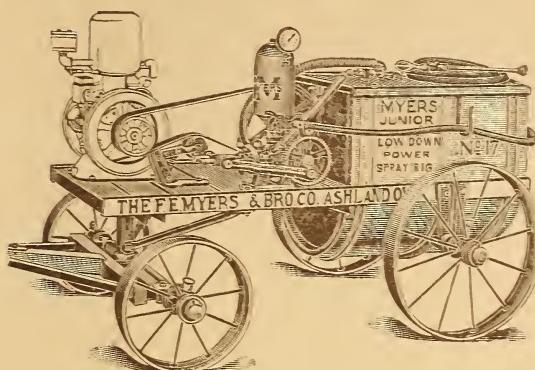
With All Steel Short Turn Truck

Complete Except Engine. Double Acting Pump, Belt Driven. 46 in. Tread, 43 in. High, 78 in. Long

A Good Community Sprayer

CAPACITY

$5\frac{1}{4}$ Gal. at 50 R. P. M.
 $6\frac{1}{2}$ Gal. at 60 R. P. M.



Furnished with Thills instead of Pole if specified on order

Specially designed for the farmer with a small orchard who raises fruit for his own use, or what is generally known as Farmers' Spray Rings or Community Spraying where several farmers combine to do their own spraying or hire one of their number to spray for all.

No. 17 illustrates the Myers Junior Low Down Power Spray Rig as furnished ready for the field with the exception of the engine. It has a 100 gallon Cypress Tank and is equipped with our regular No. 580, 2x4 in., Spray Pump.

Wheels: rear 30x4 in. face; front 20x4 in. face; 46 in. tread. Front wheels pass under the frame permitting the shortest possible turn. Has drop rear axle made of 1 $\frac{5}{8}$ in. shafting, thoroughly braced, supporting the tank direct. The front axle is made of Cold Rolled Shafting with heavy Cast Iron Housing, full length.

Deck has engine space 22 in. wide x 30 in. long, permitting the use of an exceptionally large engine when desired. Entire length of rig is 78 inches. The distance from the top of the tank to the ground line is only 43 inches. When team is turned to one side access to all parts of engine is permitted.

PUMP, No. 580, double acting, back geared 5 to 1.

VALVES and SEATS, brass beveled and ground in.

PLUNGER, brass, telescope pattern, hemp packed.

CYLINDER, 2x4 inch, removable brass shell.

PISTON, solid brass, with heavy brass stuffing nut.

WRIST PIN, 1 $\frac{1}{4}$ inch.

PULLEY, 14x2 $\frac{1}{2}$ inch, crown face.

GEAR and PINION, machine cut.

BOXES, bored, of extra length.

EQUIPPED AS FOLLOWS:

One Myers Spray Gun. 25 feet of $\frac{1}{2}$ inch Myers Spray Electric High Pressure Discharge Hose with fittings complete. Double cut-off for discharge lines, pressure gauge, agitator, belt tightener, relief valve, strainer and suction hose.

Price of No. 17 Myers Jr. Low Down Power Spray Rig, 100 Gallon Tank, All Steel Track, (engine not included) \$210.00

The Myers Pneumatic Compressed Air Sprayer

With Self Locking D-Handle and Screw Top

With Adjustable Long Distance Spray Nozzle



No. 296

No. 296 illustrates the Myers Pneumatic Sprayer as built to meet the demands for this style of Spray Pump. It is made of heavy galvanized iron with 1 $\frac{3}{4}$ inch brass tube cylinder attached to the can by means of a heavy brass screw nut. The small diameter cylinder operates easier than larger sizes. The nut is operated by lugs on the lower part of the handle, which engage in opening at the top of the nut. By means of these lugs and handle the nut can be screwed tightly to the top of tank, and at the same time lock the plunger in opposition which also permits of the tank being carried by the handle when desired. In the Myers construction we have done away with the large butterfly nuts as used on others, which are very objectionable owing to the fact that it is not only difficult to screw the cap perfectly tight but also very injurious to the hands in pumping.

THE HANDLE is D-shaped in form, and large enough to be operated by any one with perfect comfort.

No. 296 Complete, galvanized iron, \$7.25 No. 297 Complete, brass tank, \$11.00

Midget Atomizer



A small well made Sprayer for general purposes and especially adapted for use in and about the home. Will handle all kinds of liquids satisfactorily. Made of heavy tin. No. 202—Price 40c.

Faultless Atomizer



The Improved Faultless Sprayer is absolutely the best constructed Sprayer of its class ever offered to the trade. For strength and durability, it has no equal. The tapering point to the air chamber gives great force to the Spray, carrying it to the greatest possible distance. The tapering tube of air chamber is passed through the reservoir and thoroughly soldered to it. The point of the air chamber and small tube through which the liquid passes are thoroughly protected from damage in use and shipping. The piston rod is a heavy steel spring wire with cup leather plunger.

No. 1—All Tin.....50c

No. 2—All Brass.....\$1.45 No. 4—Galvanized Can..60c

Perfection Compressed Air Sprayer



A high grade compressed air sprayer for general work around the house and yard, outhouses, on truck farms, in vineyards, potato, onion and melon fields, disinfecting, deodorizing treating cattle, sheep hogs, etc.

Tank $\frac{7}{8}$ in. diameter, 20 in. high; Capacity, 4 gallons. No. 110 G — Galvanized \$6.75
No. 110 B — Solid Brass \$10.00

Junior Compressed Air Sprayer

Is made for the man who needs a high pressure compressed air Sprayer smaller than the Perfection. Adapted for the small garden, chicken house, hog pen or for disinfectants in hotels, restaurants and other public buildings.

Tank $\frac{6}{8}$ in. in diameter, 17 in. long. Capacity $2\frac{1}{2}$ gallons. No. 140G — Galvanized ... \$5.40
No. 140B — All Brass \$8.00



Vapor Bottle Sprayer

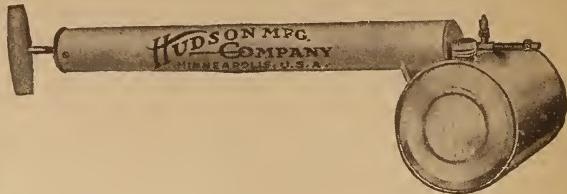


Made entirely of brass with brass valves. No parts to wear out. Made to fit any ordinary bottle. It is adapted for sprinkling clothes, spraying plants about the house, for spraying flower beds, bushes, etc. It throws a powerful spray, as fine as a mist, as fine as the steam coming from the tea kettle. Nicely nickel plated.

No. 65—Price \$1.50



Continuous Sprayer



The Continuous Sprayer is a popular pattern for a great many uses. It will handle all solutions—chemicals, insecticides, disinfectants, etc. Construction permits it to operate in any position. Fitted with straight and angle nozzle tips and removable. All working parts are brass.

Price: No. 422—Heavy Tin 90c. No. 422G—Galvanized \$1.00

Powder Gun



A special sprayer to drive powder down into cracks and crevices. Fitted with a long pointed tube which may be inserted into holes, cracks, etc. It is also provided with a fishtail spreader for use along long cracks in the floor, mop boards, etc. Nozzles are interchangeable.

No. 653—Price 50c

No. 45 Sturdy Spray Pump

Made Entirely of Brass

Used with any pail, bucket, can, barrel or tank by placing bucket strainer in such vessel. Works with ease on the up and down stroke. One brass tube works inside of the other, has brass ball valves, which will not corrode or rust. It does not require extension rods for elevating the spray, for it will spray the tallest tree from the ground.

Used with a barrel for large orchard work. It is easily operated by one man. For all kinds of spraying purposes, garden vegetables, fruit trees, orchards, washing wagons, windows, spraying disinfectants, whitewashing stables and poultry houses and for all purposes where spraying is to be done. Has no leather packings or other parts to wear out.

Everything brass but hose and handle.

Four nozzles for all spraying purposes. 3 ft. best hose. Length, Brass barrel 24 in., brass bucket strainer 16 in.

No. 45—Price \$4.50

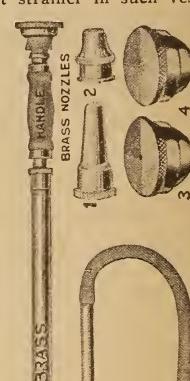
Insect Powder Gun

Cut shows our No. 1007 Whirlwind, gold lacquered tin, 4 in. in diameter, $2\frac{1}{2}$ in. deep. Capacity 4 oz. powder.

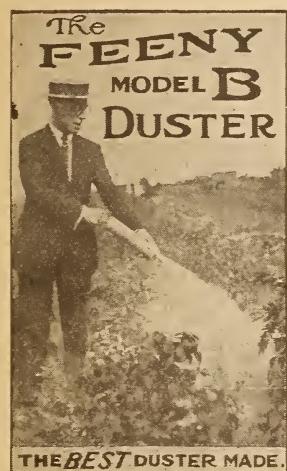
Price 50c

No. 999 Cyclone, bright tin, $3\frac{1}{2}$ in. in diameter, $1\frac{1}{4}$ in. deep. Capacity 2 oz. powder.

Price 35c



Reasons Why the FEENY MODEL B Is The Best Duster Made



THE BEST DUSTER MADE.

No other duster has the patented piston packing features of the model B Duster. These features allow of the greatest moving volume of air and the greatest force with the least possible mechanical friction, insuring the easiest operation and the greatest life of the working parts. Dusters which move an equal volume of air, fail in attaining the perfection of the model B, because they lack these essential features and over-tax the strength of the operator. They "run too hard." Dusters which do not move an equal volume of air, fail because they do NOT do the work at all—they just make a feeble attempt at it. With the Model B, the slightest movement forward of the piston, produces a dust cloud of the highest type. This is due to the perfect compression which is accomplished in no other dusting device.

The dust cloud starts the instant the handle is pushed forward and may be regulated from the thinnest "haze" to a large cloud having much force, by the stroke you give it.

It is impossible to produce a Duster to operate so perfectly as the Model B—without copying it in every detail. The Feeny Manufacturing Company owns the patents and are the only manufacturers of the Model B Dusters.

THE CLEANEST, EASIEST AND MOST CONVENIENT WAY TO KILL THE BUGS AND INSECTS IN YOUR GARDEN, ON YOUR FLOWERS, SHRUBS AND TREES

The use of the Model B Duster is nothing like the old dirty, sloppy job of trying to kill bugs and insects in your garden with a liquid sprayer—the Model B is always ready to pick up and use—so clean that you may do your dusting with your good clothes on. Your Garden, Flowers, Fruit, Bushes, etc., will not suffer from insect pests if you have a Model B Duster handy—it does not have to be cleaned after use, as do sprayers—you simply use it, lay it aside and pick it up all ready for use the next time. It is so easy, clean and convenient that it is really fascinating to use the Model B Duster.

PRICE \$1.25

THE MOST EFFECTIVE

The dust cloud from a MODEL B DUSTER COVERS EVERY SURFACE of the THING THAT IS TO BE DUSTED—TOP, sides, underside and ALL—HUNTS EVERY CRACK AND CREVISE—nothing escapes being treated—IT DOES THE JOB COMPLETELY—why waste your time and material with ineffective sprayers and make-shift dusters.

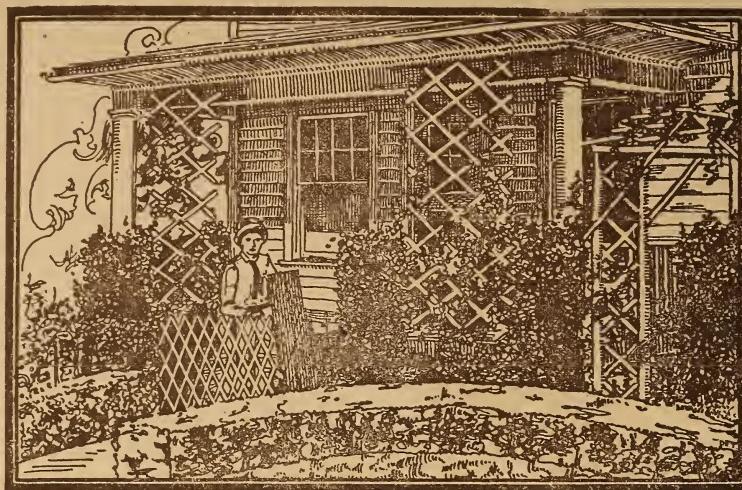
The FEENY MODEL B DUSTER HAS MANY USES

The Model B Duster has many uses besides applying all kinds of insecticides and fumigates to gardens, flowers, trees, shrubs, etc. It is ideal for killing flies, bugs, roaches, etc., in homes, hotels and restaurants—for killing lice and other vermin in chicken houses; for using hog and cattle powder on the animals or in the barns, pens or stables.

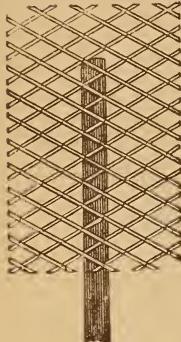
Whenever it is desired to apply any powdered material in its finest, atomized form, the Feeny Model B Duster is positively the best instrument for such application.

THE HOME BEAUTIFUL

The Most
Humble
Dwelling
Can Be
Made
Attractive
By the Use
of
Trellises
for Your
Vines



Adjustable
Trellises,
Sectional
Trellises,
Fans,
Arches,
and
Pergolas,
Prices
Reasonable



ADJUSTABLE TRELLISES

Made in 3 Sizes

No. 1—35 in. wide when folded; 30 in. wide if extended 8 ft.; 20 in. wide if extended 12 ft. Price, painted white, \$1.35.

No. 2—47 in. wide when folded; 40 in. wide if extended 8 ft.; 30 in. wide if extended 14 ft. Price, painted white, \$1.80.

No. 3.—71 in. wide when folded; 63 in. wide if extended 8 ft.; 32 in. wide if extended 16 ft. Price, painted white, \$2.40.

SECTIONAL TRELLISES



No. 4 is an exceptional fine trellis, well painted, and is made for those who want something better than the ordinary. Each section is $17\frac{1}{2}$ in. wide, and 8 ft. tall, this being the proper height for any ordinary porch from floor to ceiling. It is evident that by this means you can build your trellis as narrow or as wide as you want it by the use of 1, 2, 3 or as many sections as you desire to use.

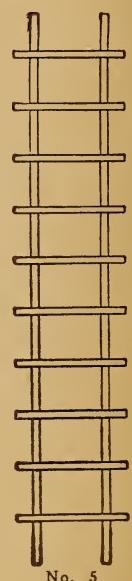
No. 4 sells at \$1.80 per section.

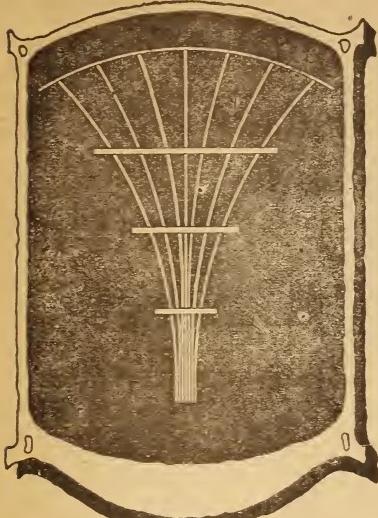
SECTIONAL TRELLIS No. 5

This Trellis is same dimensions as No. 4. That is, $17\frac{1}{2}$ in. wide by 8 ft. high. Thus one section is $17\frac{1}{2} \times 8$; two sections, 35×8 ; three sections, $52\frac{1}{2} \times 8$, and so on. Cut shows one section. It can be used in various ways, same as No. 4, and although not so elaborate, makes a very neat trim. Think of it, a trellis 35 in. wide by 8 ft. high for \$1.80, well painted and ready to nail up to porch.

No use using baggy, saggy, rusty poultry netting for your vines, when you can buy a real ornament at these prices. If painted once every year or two they will last indefinitely.

Price, 90c per section.





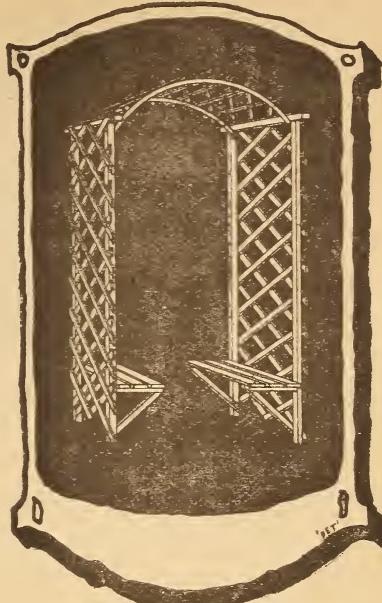
No. 6 and 7

No. 6 Fan, 6 feet tall, spread 45 inches..... Price, \$1.35

No. 7 Fan, 8 feet tall, spread 60 inches..... Price, \$1.65

ORNAMENTAL FAN TRELLIS

A very neat lawn ornament at a very cheap price, made in two sizes and shipped straight, that is not spread out. However, proper nails for fastening cross-pieces are packed with each fan, and all pieces plainly marked, so it is only a matter of a few moments to spread out and attach cross-pieces.



No. 9

ROUND TOP PERGOLA No. 11

Here is one of the most beautiful Lawn Pieces imaginable, and at a very nominal price. This piece is suitable for a single rose bush or vine of any kind, while the arches are more adapted to taking care of two plants, on either side of a walk, gate or door. Uprights, $1\frac{3}{4} \times 1\frac{3}{4}$, 7 ft. high. Span across top 5 ft. Width, 32 in. Assembled by driving up nails. Price, \$4.95.

ROUND TOP ARCH No. 9

A thing of Beauty, and a Joy Forever. Uprights, $1\frac{3}{4} \times 1\frac{3}{4}$, 6 ft. 2 in., 7 ft. high at center. Spread, $4\frac{1}{2}$ ft. wide, and 32 in. deep. Bows across top are made of $\frac{3}{4}$ -in. galvanized tubing, and firmly bolted into uprights. Inserting ends of tubes into uprights and tightening up 4 bolts is practically all there is to setting up this arch.

Without Seats, \$8.40

With Seats, \$9.90

No. 12

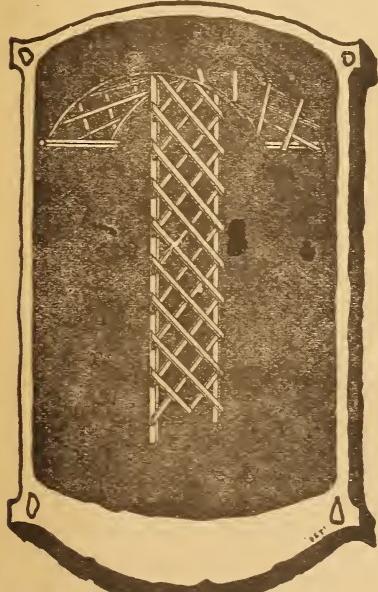
PERGOLA DELUXE

The cut shows this piece perfectly so there is not much use of comment on it. It is good enough for the millionaire and cheap enough in price for the ordinary fellow.

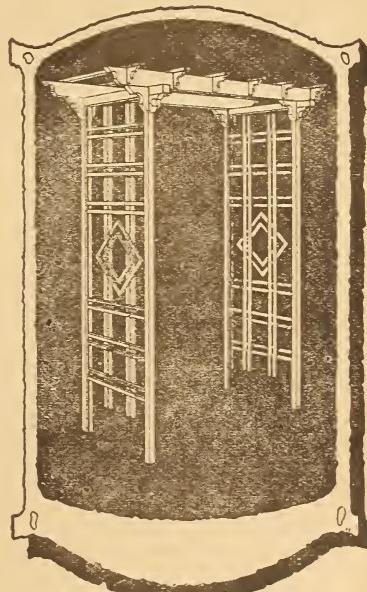
Uprights, 2x2; cross-pieces, 2x4; 7 ft. high, 6 ft. across top.

Price, well painted,
\$12.00

8 ft. across top, \$12.90
10 ft. across top, 13.80
12 ft. across top, 14.70
14 ft. across top, 15.60



No. 11



No. 12

“Buckeye” Incubators



Fire-Proof and Fool-Proof

The Last Word in Incubators

BUCKEYE INCUBATORS ARE UNQUESTIONABLY THE MOST SUCCESSFUL HATCHING DEVICES THAT HAVE EVER BEEN PLACED ON THE MARKET. EACH AND EVERY MACHINE IS SOLD UNDER AN ABSOLUTE GUARANTEE TO HATCH MORE CHICKS AND BIGGER CHICKS THAN ANY OTHER INCUBATOR ON THE MARKET.

A Word About Value—

There is a world of difference in incubators—and a relatively slight difference in cost, when the importance of the purchase is considered.

You want results. You are buying your incubator for just one thing—profit.

Chicks that die in the shell, weaklings and cripples, without chance of maturity or salability are a dead loss.

It is important for you to know in advance which incubator will bring you the highest percentage hatches and the strongest, healthiest chicks. How can you know?

Incubators for the most part look very much alike. But consider—a wildcat mining stock certificate is just as handsomely engraved as a Government bond. Your incubator is an investment. And the first essential of every good investment is safety, security.

If you invest in a cheap incubator, you may save a little in price—you may even save what looks like a good deal. But suppose your hatches are poor—the percentage low, with an overwhelming number of cripples or suppose you lose an entire hatch. Not only is your profit gone, but your investment also. For you won't continue using a machine that has demonstrated itself a loser—throwing good money after bad.

There is one way that you can know in advance what incubator to purchase—for certain security and definite, profitable results, the highest percentage hatches of strong, lusty chicks. Ask the Buckeye user, he knows. There are many hundred thousand throughout the United States—doubtless one or more right near you. Ask them.

Also consider that Buckeyes are used by such renowned and experienced poultrymen as John Martin of Port Dover, Ontario; Charles A. Pape of Fort Wayne, Indiana, and by more than eight hundred of the largest and most successful commercial hatcheries in America—hatcherries with an average capacity of more than 50,000 eggs.

STANDARD BUCKEYE BUILT IN FIVE SIZES

No. 1	No. 2	No. 3	No. 4	No. 5
Capacity 120 Eggs	Capacity 175 Eggs	Capacity 250 Eggs	Capacity 350 Eggs	Capacity 600 Eggs
\$37.50	\$44.50	\$57.75	\$68.00	\$107.00

STYLE “E” BUCKEYE INCUBATORS BUILT IN THREE SIZES

No. 14	No. 16	No. 17
Capacity 60 Eggs	Capacity 120 Eggs	Capacity 210 Eggs
\$16.50	\$27.50	\$36.50

The Tanks in the Standard are made of solid copper. The Tanks in style “E” are made of Armco rust-resisting galvanized steel and equipped with extra large boiler that insures the necessary heat.

“Buckeye” Colony Brooders

**Raise
Them All**



The Now World Famous Buckeye Coal Burning “Colony” Brooder

The particular invention which made the Buckeye coal burning “colony” brooder such a complete success was an attachment to the stove which enables the operator to regulate the burning of the coal and hold a continuous fire without danger of overheating or going out. This regulator is thermostatically controlled and can be set to meet any kind of weather conditions. This invention has literally revolutionized the brooding of chicks, for it has replaced gambling with certainty, affording the ideal conditions under which chicks will thrive—warmth, ventilation and protection.

In the hands of the users, it has made three chicks grow where one grew before; it has cut the expense of operation into half of the former figures and it has reduced the labor required to a third—but even more important than that, it has removed the causes of the frightful mortality that made chicken raising such a gamble and in doing so has made a satisfactory profit possible for every breeder.

Broods Ten or One Thousand

Whether you have ten or ten hundred chicks under a Buckeye “Colony” Brooder the results are the same. It requires no special adjustment under any circumstances. You can remove part of the chicks at any time without disturbing the ideal conditions that existed before the change was made. The Buckeye is absolutely self-adjusting and automatically changes to meet the existing conditions.

Proven By Experience

How successfully this system of brooding has worked out is known to hundreds of thousands who regard it as essential to success.

Experiment station after experiment station has endorsed it; big and little breeders have enthusiastically commended it, and its use is growing wherever men and women realize its advantages.

Coal or Kerosene

Following the introduction of the “colony” type of coal burning brooders, the same general plan has since been adapted to kerosene burners of the blue flame type. Such burners have been brought to a high state of efficiency so that they are free from dangerous gases and by using such burners in combination with the open canopy, they have proven quite as satisfactory as the coal burning type, when operated in rooms that are supplied with auxiliary heat or in buildings that are small enough to be heated by kerosene burners.

COLONY BROODER

No. 18	No. 19	No. 25
Capacity 500 Chicks .	Capacity 1000 Chicks	Capacity 1200 Chicks
\$21.50	\$26.50	\$30.00

BLUE FLAME BROODER

No. 21	No. 28	No. 29
Capacity 200 Chicks	Capacity 350 Chicks	Capacity 500 Chicks
\$17.50	\$20.00	\$22.50



Poultry Supplies

Double and Single Feeding Troughs FOR CHICKS AND GROWING STOCK



Easy to Fill and Clean

Made of best quality galvanized iron, accurately stamped with dies. No sharp or rough edges to injure the chicks.
Sliding top.

Single—No. 55, 12 in., 35c No. 56, 18 in., 40c
Double—No. 58, 12 in., 45c No. 59, 18 in., 60c

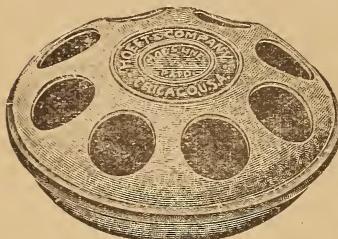


No. 57, 24 in., 55c
No. 60, 24 in., 70c

Sanitary Feeding Troughs For Grown Fowls

Suitable for dry feed, wet mash, or water. The tops slide off, so the pan can be easily cleaned and filled. Made of best quality galvanized iron. In three sizes.

No. 21, 12 in., 40c No. 22, 18 in., 60c No. 23, 24 in., 75c



Round Baby Chick Feeders

The most popular baby chick feeder on the market. Made of the best quality galvanized iron, well made in every detail. Tops fit snugly, yet can be easily taken apart for cleaning and filling, can also be used for water or milk. Chickens can not upset it. Made in two sizes.

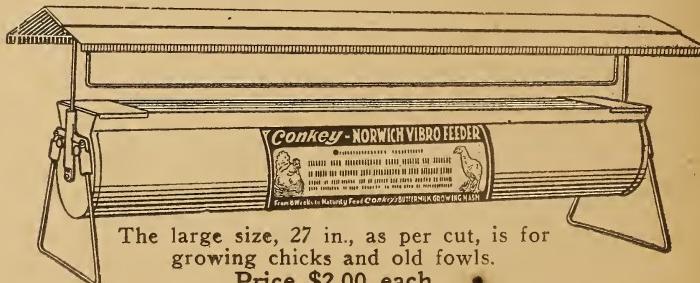
No. 11, Diameter 6 in., with 8 holes, 15c
No. 12, Diameter 8 $\frac{1}{4}$ in., with 12 holes, 25c

Norwich Chick Feeder

Impossible for chicks to pull out or scatter feed. Removable guard rod prevents chicks from getting into feed and is too small to permit their standing or roosting on it. Body of feeder made of galvanized steel with ends riveted and burred to malleable iron brackets. Can be used for grain, mash, sour milk or water with equal satisfaction.

Rain top protects feed from rain. The 20 in. will accommodate up to 25 chicks.

Price \$1.00 each



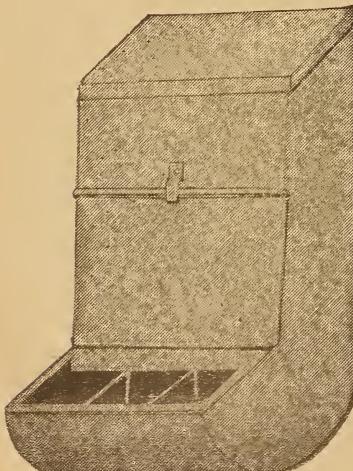
The large size, 27 in., as per cut, is for growing chicks and old fowls.

Price \$2.00 each

Dry Mash Hoppers

A Hopper of great merit, made of heavy galvanized iron, the curved bottom keeps the feed within easy reach of the birds, and the taper shape of the Hopper—larger at the bottom prevents the feed from clogging, the wires prevent the fowls from throwing out or wasting the feed. When both covers are closed it is rat, mouse and weather proof.

Made in four sizes:



No. 35—19 in. high, 8 $\frac{1}{2}$ in. wide, capacity 10 qts.	. . .	\$1.50
No. 36—19 in. high, 12 in. wide, capacity 14 qts.	. . .	\$2.00
No. 37—19 in. high, 18 in. wide, capacity 22 qts.	. . .	\$2.40
No. 38—19 in. high, 24 in. wide, capacity 32 qts.	. . .	\$2.80

Poultry Supplies

Moe's Mammoth Dry Mash Hopper

A large capacity hopper built on correct principles. Made of heavy galvanized iron, strong and substantial in every detail.

Has many excellent features: for instance it will accommodate a full 100 lb. bag of mash, doing away with the annoyance and waste of having a partly empty bag of mash on the premises. The feed is within easy reach of the chickens, and is protected from the weather and from the ravages of rats and mice.

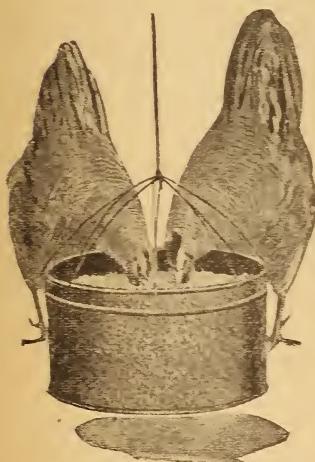
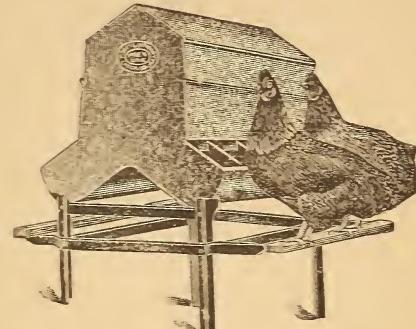
The taper shape and interior construction provides a uniform automatic feed, and the wire grid and cross wires prevents any waste.

The stand is of heavy angle iron, painted, and has wooden bars for the poultry to rest on when feeding.

Length of hopper 35 in. Width 21 in. Height 18 $\frac{1}{2}$ in. Capacity 100 lbs.

Height of stand 15 $\frac{1}{2}$ in. Total height 34 $\frac{1}{2}$ in.

No. 3—Hopper and stand complete. Price each \$9.50



The Enessee Dry Mash Hopper

Feed always dry and clean. Used by hanging with wire from ceiling with hopper high enough so chickens can reach feed.

Wire top prevents poultry from getting in or on hopper.
Rats and mice cannot get into it.
When suspended by wire from ceiling, serves as an exerciser for the chickens.

Fill hopper to swedge or about one inch from top.
Made of galvanized iron.
No. 100—Height, including wire top, 10 $\frac{1}{2}$ inches.
Height of pan 6 inches.

Price, \$1.00

Grit and Shell Boxes

The feeding of grit and charcoal is now recognized as an essential part of the diet, to keep fowls in healthy, prime condition.

There is no more economical method of supplying grit, etc., than with these practical, inexpensive compartment boxes.

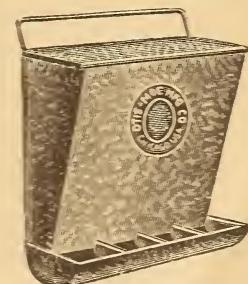
Made of heavy galvanized iron.

The No. 45 for baby chicks has a square bottom.

No. 45—2 compartments, 8 in. high, 5 in. wide.....40c

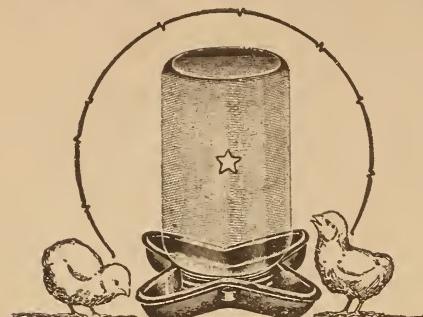
No. 9—3 compartments, 13 in. high, 8 $\frac{1}{2}$ in. wide....90c

No. 90—4 compartments, 13 in. high, 11 in. wide...\$1.25



Poultry Supplies

The Famous Star Fount



The Star is the most popular of all Star Founts—convenient, practical, low in price, and durable. Made of a single piece of heavy non-rusting metal. No seams, no solder, no loose parts. Provides a greater drinking surface than the round fount. Little chicks cannot drown. Made in one size only.

Will fit 1 pint, 1 quart and 2 quart Mason Jars.

No. 32 Star Fountain, each 10c

Bottom Fill Fountain



This fountain fills the breeder's requirements for a good inexpensive article. Made in two pieces accurately stamped and formed. Easily filled and cleaned. Made of the best quality iron in three popular sizes.

No. 19—capacity 1 quart . 35c

No. 20—capacity 2 quarts . 45c

No. 24—capacity 1 gallon . 60c

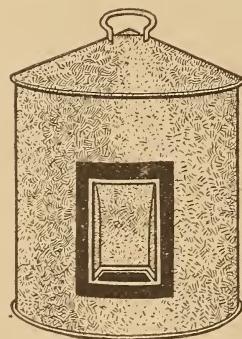
Royal Sanitary Thermic Fountain (NON-FREEZING)

Keep water warm in winter and cool in summer. Without warm water hens cannot produce eggs in winter at a profit. Cold water a single day will stop egg production a whole month.

No. 2—2 gallon size, each.....\$3.50

No. 3—3 gallon size, each.....\$4.00

No. 5—5 gallon size, each.....\$5.00



Wall Fountain

Removable bottom, a practical and convenient style of fountain, made of heavy galvanized iron. Can be hung on the wall, up out of the litter. A very popular style with many breeders. Made with a removable bottom so that all parts may be very easily cleaned and kept in a sanitary condition.

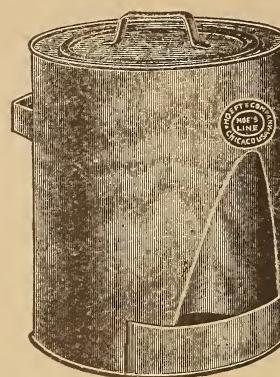


No. 26—capacity 1 gallon, each.....75c

Wall Fountain

Capacity 5 gallons

A large capacity fountain, made of heavy galvanized iron. This style appeals to many breeders, as it is a strong, substantial wall fountain at a low price. Excellent adapted for watering pigeons. Easily filled and nothing to get out of order.



No. 74

Height, 13 inches

Diameter, 11 inches

Price, each \$1.95

Little Putnam Stove



Holds three pints of oil and burns a month without attention. A wonderful little heater for the home-made warm water drinking fount, home-made oat sprouter, and home-made brooder.

Price, each \$2.50

Poultry Supplies

Poultry Punches



No. 38 Punch

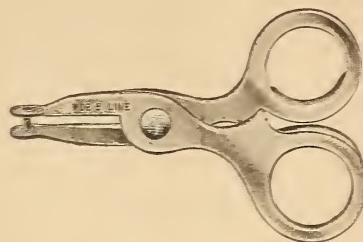
A popular and practical punch for marking Baby Chicks.

Punches a clean hole in the web between the toes, and will not bruise the foot.

Guaranteed to work perfectly.

No. 38 Punch—25c each

Showing Different
Toe Marks



No. 39 Ideal Punch

A new improved Punch, scissors type. Works easily, cuts clean and does not pinch the foot.

Convenient to carry in vest pocket, and the lower end is an excellent cigar cutter.

Nickel plated finish. Length 3½ in.

No. 39 Ideal Punch—50c each

Key Ring Colored Leg Bands

Colored Leg Bands are made of celluloid, in fast colors. They are of a proper temper, keep their shape, light in weight and very durable.

Will not fade, and are weather proof. Quickly put on or removed, and make it easy to keep an accurate register of your birds.

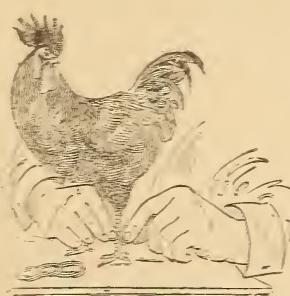
Made in Six sizes as shown, and in Ten colors, as follows:

White, Black, Red, Garnet, Pink, Green, Dark Blue, Light Blue, Purple, Yellow.

Put up regularly 50 bands of a size and color in a bundle.

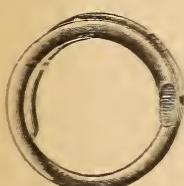
POULTRY SIZES

Stock Numbers	91, 92, 93, 94
12 bands	\$.15
25 bands .....	.30
50 bands .....	.50
100 bands .....	.75
500 bands	3.60
1000 bands	7.00



PIGEON AND BABY CHICK SIZES

Stock Numbers	95, 96
12 bands	\$.10
25 bands .....	.20
50 bands .....	.35
100 bands .....	.50
500 bands	2.25
1000 bands	4.00



No. 91
ASIATIC



No. 92
AMERICAN



No. 93
MEDITERRANEAN



No. 94
BANTAM



No. 95
PIGEON



No. 96
BABY CHICK

Poultry Supplies

Aluminum Leg Bands



Made of sheet aluminum, with large raised numbers, easy to read from a distance. Adjustable for any size fowl. Accurately made and quickly applied. Packed in paper cartons of 12, 25, 50 and 100 bands each. Numbered from one up.



No. 130—Adjustable Aluminum Leg Bands

12 bands.....	15c	50 bands.....	45c	500 bands.....	\$3.50
25 bands.....	25c	100 bands.....	75c	1000 bands.....	6.00

Self-Locking Leg Bands



A seal band that requires no sealer.

Locked by simply pushing it together. Made of a bright nickel colored metal that will not rust or corrode.

Numbered consecutively with embossed numbers from 1 to 5000.

Made in 8 sizes as follows:

Size 1—Pigeons.	Size 5—Mediterranean Males.
Size 2—Hamburg & Polish Females.	Size 6—American Females.
Size 3—Hamburg & Polish Males.	Size 7—American Males.
Size 4—Mediterranean Females.	Size 8—Asiatic and Turkey.

No. 120—Self-Locking Leg Bands—Always give sizes and numbers when ordering.

12 bands, any size.....	15c	50 bands, any size.....	45c	500 bands, any size...	\$3.50
25 bands, any size.....	25c	100 bands, any size.....	75c	1000 bands, any size...	6.00

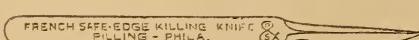
Caponizing Tool Sets in Cases

The Lansdowne No. 1 Set.....	\$3.50
The Lansdowne No. 2 Set.....	3.00
The Pilling-Farmer Set	3.00
The Philadelphia Set	2.75
The Farmer Miles Set.....	5.00

GET ONE OF OUR BOOKLETS—For Full Particulars on Caponizing, the Best Time to Caponize, and What Are Capons



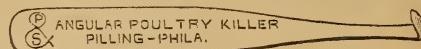
Safe Edge Killing Knife



Exactly same as French Killer, except cut on one side only.

Price, 50c

Pilling Angular Killing Knife

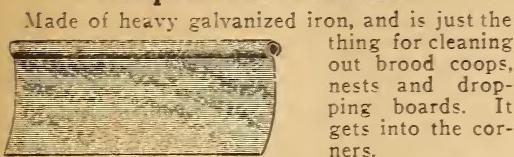


A simple turn of the wrist cuts the jugular vein and spinal cord, allowing the feathers to drop, thus rendering dry picking easy.

Price, 50c

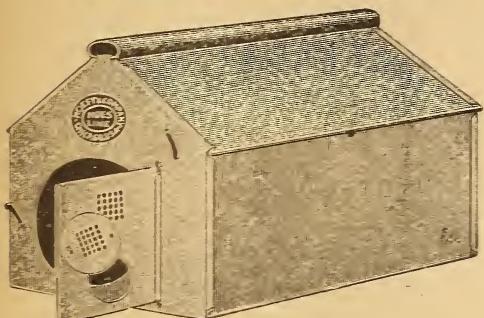
Poultry Supplies

Scraper and Cleaner



No. 47—length 10 inches, price, each 20c

Square Brood Coops



Made of heavy, best quality galvanized iron. The bottom is removable so the coop can be easily cleaned and kept in a sanitary condition.

Provides a perfect shelter for both the hen and chicks.

Has a combination door which can be adjusted 1—to keep the hen in and permit the chicks their liberty.

2—to keep both hen and brood in, with perfect protection against weather, rats, cats and other animals; and yet allow ample ventilation.

3—to give both hen and chicks their liberty. Size 16 in. wide, 23 in. long, 16 in. high.

No. 49—Price each \$2.50. Per Dozen, \$30.00

Oat Sprouter



Made entirely of metal. Strong and rigid.

Provides the very necessary green feed at all seasons. Healthy chickens and more eggs.

The frame is of steel, well braced and neatly painted. Has six heavy galvanized iron pans. Five of the pans have perforated bottoms to secure proper drainage, and the bottom pan is solid to hold the drippings. Pans are interchangeable. Sectional frame can be quickly taken apart and stored in a small space.

Total height of frame 3 ft. Size of pans 16 in. by 18 in.

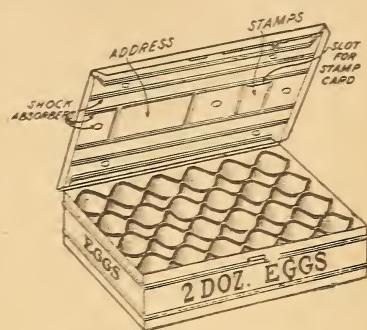
No. 110—Moe's Oat Sprouter, each.....\$6.00

The Aluminized Metal Egg Crates

solve the problem of shipping eggs, butter and other farm products by Parcel Post. They are made for continued use, being strongly constructed but light in weight.

All crates are provided with built-in shock absorbers to give a cushion for the eggs. Fillers to hold the eggs are made for long life.

Metal egg crates do not require outside wrapping for mailing. A short string only is needed for tying "pin" which holds lid securely closed.



PRICES

Dozen-and-a-half size—all eggs.....	\$.85
Two-dozen size—all eggs.....	1.00
Three-dozen size—all eggs.....	1.25
Four-dozen size—all eggs.....	1.50
Six-dozen size—all eggs.....	1.75

COMBINATION CRATES

With Containers for Butter

No. 1—7 lbs. and 2 dozen eggs.....	1.75
No. 2—3½ lbs. and 1 dozen eggs.....	1.50
No. 3—3½ lbs. and 2 dozen eggs.....	1.65
No. 4—3½ lbs. and 3 dozen eggs.....	1.85
No. 4½—1 lb. and 1 dozen eggs.....	1.35

Lamp Bowls

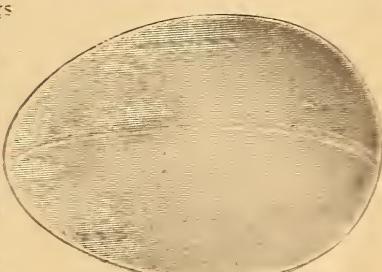
Heavy galvanized iron for incubators, brooders and fountain heaters.

No. 100—6x1½, 50c
No. 101—6¾x2¾ 60c
No. 102—8x2¾, 75c

METAL CHIMNEYS—For Incubators and Brooders. Made of galvanized sheet steel, with round mica window. Two Sizes. 30c each.

Lime Nest Eggs

Strong, cheap, durable, odorless, will not break. Lime nest eggs are rapidly replacing the glass egg in common usage and the medicated egg which has been of no value as a lice killer. Price, each 5c Per doz. 50c



Poultry Supplies

Egg Tester

To test the fertility of eggs during the period of incubation. Used with an ordinary lamp (No. 2 burner) in a dark room.

No. 48 Egg Tester, each 35c

hour by the Hupp Automatic Mail Exchange and then placed in an incubator, which resulted in a 75 per cent hatch.

No. 14—Capacity 15 eggs.....	20c
No. 15—Capacity 30 eggs.....	40c
No. 16—Capacity 50 eggs.....	70c
No. 17—Capacity 100 eggs.....	\$1.25



Poultry Netting "CLIMAX"

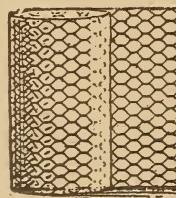
The kind that is galvanized after being woven, which solders the long twists of the meshes firmly together. The result is a netting protected thoroughly from moisture.

We have sold Climax
for 25 years

It is put in bales 150 feet long.

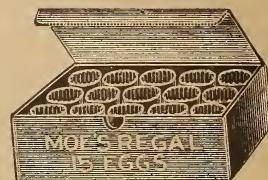
2 in. mesh—Width: 12 in., 18 in., 24 in., 30 in., 36 in., 48 in., 60 in., 72 in.

1 in. mesh—Width: 12 in., 18 in., 24 in., 30 in., 36 in. Price—Market.



Regal Egg Carriers

This safety first box is adapted to either parcels post or express use, and can be used time after time. Eggs have been shipped in this box and taken from a train going at 50 miles an



Buckeye Universal Thermometer

The One Thermometer to Fit All Makes
of Incubators

It is self-contained and complete within itself.

There are no holders, stands or any other devices required to hold it in position; and as a consequence the correct position of the Thermometer will always be assured in every case.

This not only applies to Buckeye Incubators, but it also applies to every other brand of incubator on the market.

Price, each.....\$1.00

Fire Extinguisher “PYRENE”

There Should Be One in
Every Home and Garage
ESPECIALLY
in the Country Homes

Statistics show that fully 75% of the buildings destroyed by fire in rural districts might have been avoided if a fire extinguisher had been available when fire was first discovered.

You can't afford not to own a Pyrene.

Price \$10.00



How to Feed Baby Chicks

The First **8 Weeks!**
Mean Life or Death

That's when your big chick losses occur—during the first eight weeks—that's when you must have

Conkey's
TRADE MARK
THE ORIGINAL

Buttermilk Starting Feed

Prevents the big losses due to weakness and disease and gives your chicks the quick snappy getaway that produces early broilers and layers. The lactic acid in the buttermilk puts an edge to the appetite; strengthens and tones up the sensitive digestive organs of the little chicks, and helps to sweep away germs that cause White Diarrhea.

Semi-Solid Buttermilk Only

Is used in making Conkey's Buttermilk Starting Feed—never Dried Buttermilk. Semi-Solid Buttermilk incorporates thoroughly with the grain. Conkey's is the only Buttermilk Feed for chicks made according to the Original and successful Conkey process.

After 8 Weeks You Must Change the Feed

You Can't Get Satisfactory Results
Feeding Growing Chicks a Starting Feed

Growing fowls—after 8 weeks—need a different feed. They must have more protein than the little chicks can stand. The same feed cannot serve for both purposes—for little chicks and for growing fowls—if you expect to get the best results.

That's why Conkey makes

Conkey's

The Original

Buttermilk Growing Mash

This is the great developing feed that most successful poultrymen use to bring their fowls quickly to early maturity—that insures early broilers and layers. Just right in protein and low in fibre. It is a wonderful bone and flesh builder. Feed it for rapid and certain results.



PRICE LIST

CONKEY'S STARTING FEED

2½ lb. Sack.....	25c
5 lb. Sack.....	40c
10 lb. Sack.....	70c
25 lb. Sack.....	\$1.60
100 lb. Sack.....	\$6.00

PRICE LIST

CONKEY'S GROWING MASH

10 lb. Sack.....	65c
25 lb. Sack.....	\$1.50
50 lb. Sack.....	\$2.85
100 lb. Sack.....	\$5.50

Conkey's Buttermilk Laying Mash

The Original

The third link in the Conkey Chain is balanced for a full egg basket. Low in fibre, just right in protein for layers.

This mash was placed on the market in response to an insistent demand for an honestly prepared, egg-producing ration that could always be depended upon to be clean and uniform. This demand arose through loss of egg production which is likely to follow a change of "balance" in feed—too many egg mashes unfortunately are variable in quality and therefore unreliable and costly if not positively dangerous.

To produce eggs in abundance, the flock must have a balanced ration consisting of a dry mash and a good scratch grain mixture, also a regular supply of green stuff. Grains alone

are not a sufficient ration for laying hens. Conkey's Buttermilk Laying Mash is made by Conkey's ORIGINAL process. Fresh, Semi-Solid buttermilk and other ingredients are blended so as to tempt the hen's appetite, thus increasing consumption of dry mash so essential to large egg production.

Insist on Conkey's mashes—you can always depend on them. Conkey feeds are always clean, wholesome and uniform.

Raising poultry is pleasant and profitable when "good luck" is with you. Good luck, however, is not merely a matter of chance, but of BEING PREPARED. For more than twenty-five years Conkey has been THE POULTRY DOCTOR. Take his advice. Install a Conkey Corner of remedies in your poultry house as insurance against disease, trouble, loss and disappointment.

We sell Conkey's Poultry and Stock Remedies because we know they are reliable and we can guarantee them as follows:

**YOUR MONEY REFUNDED CHEERFULLY IF
ANY CONKEY REMEDY DOES NOT SATISFY**

	Per Package				Per Package			
Roup Remedy	\$.30	\$.60	\$ 1.20	Lice Powder	\$.10	\$.25	\$.50	\$ 1.40
Roup Pills	.30	.60	1.20	Lice Liquid	.60	.90		1.50
Diarrhoea Remedy	.30	.60	1.20	Poultry Worm Remedy	.25	.50		
Cholera Remedy	.25	.50	1.00	Poultry Conditioner	.25	.50		
Canker Remedy	.50			Head Lice Ointment	.10	.25		
Poultry Laxative	.25	.50		Black Head Remedy	.50			
Sorehead Remedy	.25	.50		Limberneck Remedy	.50			
Gape Remedy	.25	.50		Scaly Leg Remedy	.25			

Conkey's Poultry Tonic

Every bird from chick to maturity will be more productive, healthier and more profitable if given a good tonic and regulator. Conkey's Poultry Tonic helps birds to get more out of their feed; they produce more eggs and better flesh on LESS FEED, by better digestion and assimilation.

Conkey's Tonic is all medicine—free from filler, red pepper, and "hot stuff" to overstimulate the birds and break down their health. Conkey's builds on a natural, healthy basis, inducing steady persistent laying. Keeps the young chicks growing, makes molting easy, strengthens the bird for bad weather and generally maintains a high health average.

Buy it by the pail. Packages, 25c, 50c, \$1.00; Pails, 12-lb. \$1.60; 25-lb. \$3.00; Bags, 50-lb. \$5.00; 100-lb. \$9.50.

Ask us for CONKEY POULTRY BOOK—an 80-page Handy Book of Reference on Poultry Raising—No Charge.

**Have a Conkey
Corner in Your
Poultry House**



ROUP

Roup Is the Most Dreaded of All Poultry Diseases

Symptoms—First stage:—Chickens catching cold, eyes and nostrils become watery. The fowls will wheeze when breathing and will frequently sneeze and shake their heads to throw off the mucous.

Second stage:—One or both eyes will become inflamed. Bird will rub its head across its back as the nostrils become closed.

Third stage:—Swelling and hard lump of mucous under one or both eyes. Canker developed in mouth and on tongue. There is a catarrhal odor.

Roup is very contagious and the entire flock will soon become infected, after canker develops, for this is the last stage and unless drastic action is taken to prevent the windpipe from closing with canker, death is very sudden.

The Reason "SMOKE EM" Will Produce An Absolute Cure

The beginning of roup is caused by a cold. The mucous cannot escape from the nostrils after they become clogged. This mucous is carried to the eye and forms a lump causing considerable inflammation. Very often both eyes contain an accumulation of this mucous. There is a small channel connected with the eye and nostrils known as the tear socket. After the chicken contracts a cold the eyes start to water, and gradually the nostrils fill up with mucous until they are entirely clogged, then the tear socket becomes infected and when the mucous cannot find its way out it gradually discharges back through the nostrils to the inside of the mouth and windpipe, forming patches of canker.

It is an established fact that chickens must breathe as well as human beings. Therefore, the first thing to correct the condition of roup is to force the nostrils open so that the chicken can breathe. This is done by the chicken inhaling "SMOKE EM," which is so powerful it forces its way right through the nostrils of the chicken and dissolves the mucous in the nostrils and mouth, causing a free discharge of this diseased matter and thereby depositing the medicinal properties of "SMOKE EM" directly on the diseased parts of the bird, right up inside the nostrils and in the eyes and windpipe, etc.

"SMOKE EM" leaves a thick layer of black deposit covering the diseased parts, and after killing the disease germs will heal these affected parts and produce an absolute cure.

75c Per Can

Teeth and Tonic for Poultry

PEARL GRIT

The Double Purpose Grit

Scientists tell us that there is no known substance that aids a fowl's digestion as does good, clean, sharp grit. It enables the gizzard to prepare the food for digestion. It is a fowl's false teeth. When grit becomes worn out it is expelled. If new, sharp grit cannot be secured, the food must remain unground in the gizzard until it is softened and falls to pieces. This makes slow, imperfect digestion. It robs the hen of strength and robs you of eggs.

Grit of any kind is good for poultry because it enables the gizzard to prepare the food for digestion, but there is a best grade of grit just as there is a best grade of blooded stock, of corn, oats, hay, oil, coal—or everything.

Pearl Grit is more than a food grinder. Besides being the cleanest, whitest and sharpest grit that money can buy, Pearl Grit contains a generous supply of those minerals that the laying hen needs so badly in the production of eggs. Both Teeth and Tonic, it is a double purpose grit. When you scatter Pearl Grit you scatter all that the hen needs for its digestion as well as for egg making.

Sulphur and Carbohydrates, essentials in making eggs, are both contained in Pearl Grit. By mixing this double purpose grit with your feed, you are giving your hens a perfectly "balanced ration," and thus assuring yourself of a maximum amount of eggs.

Furthermore, the eggs will be of a better quality, as Pearl Grit is rich in calcium carbonate (lime), a substance that helps hens produce large, white, and hard-shelled eggs. Fowls fed on Pearl Grit never lay eggs with soft shells. This reduces your loss through breakage.

Pearl Grit is clean, white and nutritious. It imparts strength and vigor to young chicks and is most excellent for laying hens. It gives them exactly what they need to make them healthy, heavy layers. Its whiteness enables hens to find it easily and quickly.

In every sack of Pearl Grit that you buy, you receive double value because Pearl Grit is a double purpose grit. No shell-making materials, such as lime, magnesium, or oyster shells are needed. When you buy Pearl Grit you get all of these. Saves you time and labor and produces more eggs than are possible when ordinary grit is fed.

It is an economy to use Pearl Grit. When you use an inferior grit, you rob your hens of strength and rob yourself of eggs. Pearl Grit mixes with the feed, grinds the contents of the gizzard, stimulates the digestion, and increases the size, quality, and number of your eggs. Its cost is trifling, and your profits are large.

Price, per lb. 2c. Per 100 lbs. \$1.50



Kills Chicken Mites in Poultry Houses
Applied ONCE a YEAR—See Guarantee.

CHICKEN MITES

There are a number of insect parasites infesting poultry houses, etc., but very little is known about them and their habits, and they are generally called Lice. A distinction, however, should be made between that kind living on the body of fowls all the time, the "Body Lice," and those that bother the fowls, etc., during the night only and crawl away in the morning to spend the day in the cracks and crevices of the infested building. These are called "Hen-Lice" or Mites.

These mites are pests and genuine blood suckers and vampires and while the chickens can get rid of the body lice and keep them within limits by an occasional dust or sand bath, they are absolutely at the mercy of and helpless against the Mites, which suck their blood and gradually kill them.

It is therefore of vital interest to help the chickens, and the quicker the mites are cleaned out, the better it is. Results will quickly show in the shape of healthy Chickens and plenty of eggs.

There are quite a few remedies, however all of them are efficient only a short time, as they will quickly evaporate, and therefore must be applied almost continually. One single, annual application of Arrow Carbolineum will do the work. It will not only kill all the vermin by direct contact, but if sprayed or brushed, it will penetrate all cracks and crevices and reach the mites at close quarters and effectually stop their propagation.

Kills Chicken Mites in Poultry Houses
Apply once a year.

GUARANTEE

We guarantee that one thorough application of ARROW CARBOLINEUM either by brush or sprayer, to the interior walls, dropping boards, roosts, etc., to such buildings, after a previous cleaning and no matter whether they are of wood, tar paper or plaster, will exterminate mites in same FOR A WHOLE YEAR.

PRESERVES WOOD EVERYWHERE

Nut Brown Color:

Preserves wood everywhere against rot and decay and adds at least 100 per cent to the life of fence posts, poles, sills, floors, bridge timbers, porches and to wood imbedded in concrete.

Arrow Carbolineum will double or even treble the natural life of fence posts, etc., regardless of grade or species of wood used, or the prevailing climatic conditions. Its use enables the use of inferior grades, even such as willow and cottonwood.

COVERING CAPACITY on average size posts:

40 posts per gallon for dipping butt.

60 posts per gallon for butt, brush use.

100 square feet rough lumber per gallon with two brush applications.

Price \$1.75 gallon. Quantity Price on Request.



Carbola is a white paint in powder form combined with a disinfectant many times stronger than pure carbolic acid. It is non-poisonous and non-caustic. It kills lice, mites, fly eggs, etc., and helps prevent the start and spread of contagious diseases that affect man, beast and fowl. Carbola is two things in one—a paint that disinfects or a disinfectant that paints. It dries a clear snow white. It saves labor, time and money. It paints and disinfects at one operation in the same time and with the same labor required to paint or disinfect only.

Carbola is recommended for use instead of whitewash in every place where whitewash ordinarily is used.

Garages	Cellars
Factories	Outbuildings
Warehouses	Tre Trunks

It is recommended for use instead of whitewash and disinfectants in

Stables	Barns
Kennels	Creameries
Poultry Houses	Hog Pens
Rabbit Hutches	Dairy Buildings

Carbola is superior to whitewash because it not only increases the light and improves the appearances, but destroys bad odors and mustiness. It guards against the start and spread of contagious disease germs, and deprives flies, spiders and other insects of their breeding haunts. Carbola in its dry state is recommended for sprinkling into closets, garbage pails and privy vaults.

In the Poultry House

There is nothing that contributes more to success in poultry raising than absolute cleanliness and sanitation in the poultry house. Clean living quarters mean as much as proper feeding. The best strain of poultry in the world, fed by best rations will not produce their best if the poultry house is not kept clean. Much of the decreased egg production and much of the sickness, low vitality and frequent mortality is due to unclean conditions. Without regular care the yards and ranges where the birds have been running on them constantly, become polluted and filthy—an ideal place for the breeding of disease. The houses soon become filled with red mites, which when present in any number are a great drain on the health and vigor of the flock. Every time you bury a chick you lose some profits. If the growth or production is retarded you lose other profits.

Trial Package	\$.30
10 pounds (10 gal.)....	1.25
20 pounds (20 gal.)....	2.50
50 pounds (50 gal.)....	5.00
200-pound bag	18.00

The MARTIN-SENOUR Co.

100% Pure Paint

MONARCH

MONARCH PAINT IS COMPOSED OF
ABSOLUTELY

PURE WHITE LEAD
PURE OXIDE OF ZINC
PURE LINSEED OIL
AND COLOR

WHICH ARE THE BEST KNOWN
INGREDIENTS FOR PAINTS

Monarch Paint is guaranteed absolutely pure, is sold subject to chemical analysis and being made of pure materials it covers 25 per cent more surface, wears longer, and is therefore more economical than adulterated paint or lead and oil.

Monarch Paint has given entire satisfaction for over 40 years.

Senour's Floor Paint

Is a varnish paint and made to dry very hard with a high lustre and sufficient hardness and elasticity to withstand the wear and tear to which floor paints are subjected.

Neu-tone

A washable flat wall paint for interior decoration. It dries with a soft restful and beautiful finish, showing neither gloss nor lustre, and the colors are permanent under all conditions.

Wood-Var COLORED VARNISH

A beautiful and durable permanent finish for every class of interior woodwork, furniture, bric-a-brac or floors, and equal results are obtained on either old or new work.

Wood-Var is a combination of permanent stains, unsurpassed for clearness and richness of tone, combined with the highest grade of varnish possessing remarkable wearing elasticity and weather-resisting qualities.

Wood-Var is easy to apply, as it flows out well under the brush and dries without showing brush marks. It is prepared so that it brings out the beautiful grain of the wood and gives a richness of tone that will not fade or rub off.

By the use of Wood-Var, the less expensive woods can be made to closely resemble the more costly ones, such as Oak, Mahogany, Walnut, etc., while unsightly pine floors may be made to resemble the most beautiful hardwood floors.

Red School House Paint

Is made of selected English red oxide, masticine mixed and ground in linseed oil. Covers more surface, lasts longer than the coarse hand-mixed materials.

Made in popular colors, including white.

For barns, fences, roofs, out-buildings and grain elevators.

Wagon and Tractor Paint

For finishing and refinishing wagons, tractors, sleighs, farm implements and all surfaces for which durability is essential and where appearance should be considered.

Screen Enamel

For protecting both the frame and the wire and is made expressly for this purpose. Black, green and white.

Screens should be gone over every year, and it will be found they will stand the weather better and last longer if given two coats.

Porch and Lawn Furniture Enamel

Is made from materials especially selected for the purpose. Ground in varnish, that, through many trying tests, has proved its ability to resist wear and maintain its gloss under the hardest exposure.

Auto Flat and Varnish Finishes

REFINISH YOUR CAR THE SAME WAY
THE AUTOMOBILE PAINTER WOULD
DO IT

Martin-Senour Co. have developed materials that are perfect in every respect—that have been made so that the most inexperienced can get fine results.

Many automobile owners are skeptical and hesitate to attempt repainting their own car.

—BUT—

By using Martin-Senour Auto Flat and Auto Varnish Finish you can get as fine a finish as though done by a professional.

Long Life

Doubles the Life of Your Brush and Keeps It
Like New Until Worn Too Short for Use

"LONG LIFE" is a preservative in which both new and used brushes should be kept submerged while not in use. The new brushes will be kept soft and pliable and will be prevented from ever becoming "Lousy." The Bristles will retain their animal life and will always be ready for service. Old brushes will be softened and renewed and made to work smoothly until worn too short for use.

MARTIN VARNISH CO.
MAKERS OF 100% PURE VARNISHES
CHICAGO

Martin Varnishes

Are made from pure varnish gums, pure varnish oils, pure turpentine, and labeled on every can.

100% Pure

Martin Varnishes absolutely contain no benzine, rosin or water, or any other adulterant.

**MARTIN'S 100% PURE
INTERIOR FINISH**

Is an unusually durable and efficient interior varnish. It produces a rich gloss; may be rubbed and will not mar. Is not affected by moisture.

**MARTIN'S 100% PURE
FLOOR VARNISH**

Is not affected by hot or cold water; will not mar or scratch white. Intended for all surfaces subjected to unusual wear.

**MARTIN'S 100% PURE
VELOUR FLAT FINISH**

Gives a perfect imitation of a rubbed finish--either flat or semi-gloss--and saves the expense of such an operation. Can be applied over either old or new varnished surfaces; produces a soft satin finish.

**MARTIN'S
AMBER-LYTE FLOOR OIL**

A wonderful finish for maple floors. Penetrates deeply into the pores of the wood, which acts both as a filler and surfaicer. Dirt and grease spots cannot adhere to a surface finished with Amber-Lyte and scrubbing is reduced to a minimum.

RIPOLIN --- The Original Holland Enamel Paint

Ripolin is known the world over for its wonderful working and wearing qualities. Long in oil, long in service, and beautiful

Kyanize
KY-AN-IZE

**Kyanize
FLOOR FINISH**

Excellent for both Floors and Furniture.

Kyanize Floor Finish is a colored varnish made expressly to resist scuff and hard wear. It is also very satisfactory for standing woodwork, doors and wainscoating.

**Kyanize
WHITE ENAMEL**

The outstanding characteristics of Kyanize Enamel are its extraordinary durability, its smoothness in working under the brush, its elasticity, making it impervious to cracking, checking, peeling or softening; its ability to retain its marked whiteness and porcelain-like surface for a prolonged period.

The Kyanize New Tints carry the same unvarying qualities which have distinguished Kyanize White Enamel from all inferior products.

**Kyanize
WASHABLE CELOID FINISH**

A semi-gloss or celoid enamel finish for all walls, woodwork and furniture. A finish that dries over night with a satin-like lustre. A very satisfactory finish for kitchen walls that require frequent cleaning. Made in white and delicately tinted shades. Very durable.

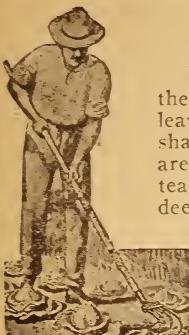
**Kyanize
BABY CAB ENAMELS**

Whatever else may be desired in a baby carriage, an attractive trim appearance is above all. Our Kyanize Baby Cab Brown, Gray, Ivory and Blue are especially suited to transform the old stained carriage into a bright, lustrous and water-proof vehicle.

in effect, it is used on many of the most representative public and private buildings, both in Europe and America.

Garden and Lawn Implements

"Norcross" Cultivator-Hoes and Weeders

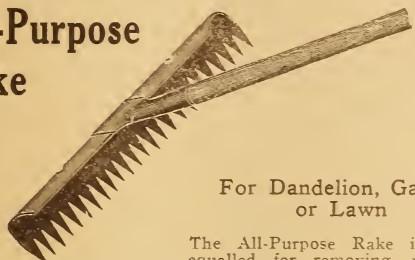


Will cultivate closer to plants without injuring them than any other type of implement known, leaving the soil level, loose and untrampled. The sharp, tapering shovels enter the ground easily and are so arranged, one with another, as to literally tear up every inch of the soil from one to five inches deep, as required. Detachable steel prongs, malleable head, extra high handles. Finely finished throughout. Three sizes, suited to both men and women, and the average cost is only that of a common hoe.



5 Adjustable Teeth, Long Handle.. \$1.25 3 Adjustable Teeth, Long Handle.. .85
3 Adjustable Teeth, Short Handle.. .50

All-Purpose Rake

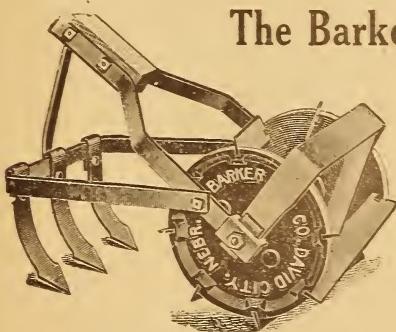


For Dandelion, Garden or Lawn

The All-Purpose Rake is unequalled for removing yellow dandelions. When it is pulled across the lawn, the stems, leaves and blossoms are wedged between its teeth and easily pulled out. It is also a first class rake for general work. It will pick up the acorns, pebbles, small twigs, etc., which an ordinary rake will not touch, and will clean the lawn of cut grass and dead leaves in better shape than is possible by any other means. It is self cleaning. A single backward stroke clears the rake—no pawing over the debris with your fingers. It is light and easy to handle, has great capacity, and is strong enough for the roughest use.

No. PE16—16 inch....\$1.00

The Barker



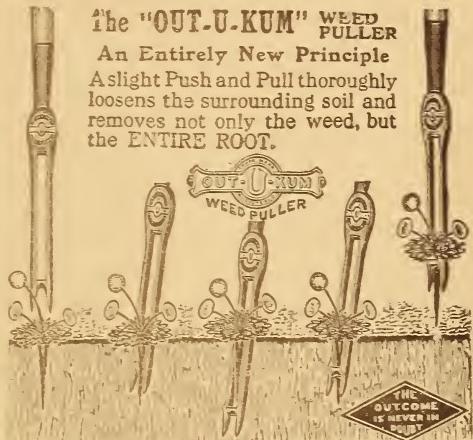
You Should Have a BARKER Because

It kills the weeds.
It makes a perfect soil mulch or moisture blanket.
It is the only garden implement that kills the weeds and makes a perfect soil mulch at one and the same operation.
It is the only hand cultivator that can instantly be turned into weed killer and soil mulcher.
It is easy to operate—a boy or girl can run the BARKER.
A ten-year-old boy with a BARKER can do more than two men with wheel hoes—and do it better.
It works in all kinds of soil.
It runs smoothly—no tugging, no jerking, no pulling.
It saves time, saves work.
It will pay for itself in increased yields in a single season.
It is one hundred per cent efficient.
It is the "Best Weed Killer Ever Used."
It is the best garden implement for the market garden, for the farm garden, and for the city back-yard garden.

No. 10D—10 in....\$11.75 No. 12D—12 in... \$13.45

the "OUT-U-KUM" WEED PULLER

An Entirely New Principle
A slight Push and Pull thoroughly loosens the surrounding soil and removes not only the weed, but the ENTIRE ROOT.

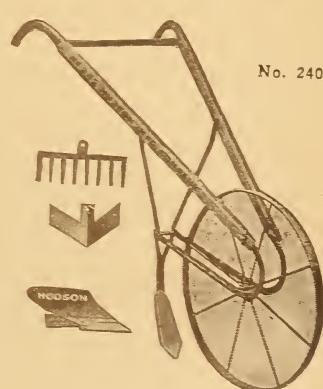


A push and a pull, that's all—Out comes weed, root and all.
Out-U-Kum Weed Puller—75c

HUDSON GARDEN PLOW

The high wheel garden plow is a universal favorite with the truck farmer, or gardener where the work is sufficient to justify separate machines for seeding and cultivating.

It has all the equipment for plowing and hill-ing, raking, and cultivating either wide and shallow or narrow and deep. A 24-inch high wheel is used which makes traction very easy. Framework is of steel, giving great strength and rigidity without excessive weight. The Plow, double pointed shovel and sweep, are made of regular plow steel. The cultivating attachment is made from malleable iron and is equipped with removable steel teeth.



No. 240

No. 240—Garden Plow, price each.....\$3.75
No. 2401—Five Prong Attachment, each.... 1.25

The Hudson Seeder and Single or Double Wheel Cultivator



hoe. All parts of the best material, well made and carefully fitted, which will give real satisfaction.

No. 201—Seeder and Cultivator, price each....\$16.75

Lawn Mowers

"CLARINDA"

Clarinda Lawn Mowers are made of the highest grade materials obtainable. Strong frames; double cross bar construction; blades ground to a true, sharp edge which insures perfect cutting. Plain or ball bearing; improved, perfect and simple blades and bearing adjustments; size and weight to meet every demand.

	14 in.	16 in.	18 in.	20 in.
Blue Bell—10 in. wheel, P. B...	\$11.50	\$12.00	\$12.50	
10 in. wheel, B. B...		13.00	13.50	
Cardinal—11 in. wheel, P. B...		15.50	16.00	\$16.50
11 in. wheel, B. B...		17.00	17.50	
Hawkeye—12 in. wheel, P. B...		16.50	17.00	17.50

"ECLIPSE"

The Eclipse Mower is built for use on large lawns, parks, cemeteries, golf links, etc. High wheels, built strong—made of the very best lawn mower materials known. All adjustments easily made—both ends of cutting bar are adjusted alike and at the same time by the turning of a simple thumb nut.

16 in., \$19.00. 18 in., \$20.00. 20 in., \$21.00.

Dunham Water-Weight Lawn Rollers

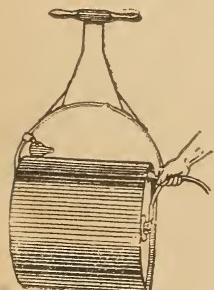
While rolling your lawn is particularly necessary in the early spring, it is also necessary throughout the entire summer, especially after heavy rains. It discourages the work of worms, ants, moles and gives a smooth, even lawn for the mower to run over.

No. WB5—Weighs empty 85 lbs., filled 300 lbs.

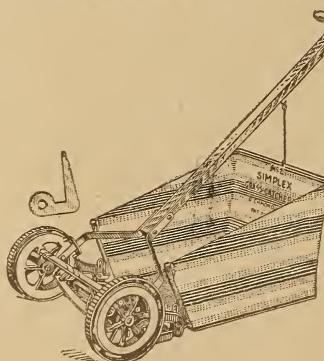
Price, \$20.00

No. WB7—Weighs empty 110 lbs., filled 500 lbs.

Price, \$23.00



Grass Catchers



Automatic galvanized steel bottom, heavy duck sides, can be lifted off free from the mower with one hand and emptied wherever desired.

No. 1—\$1.50

No. 2—\$1.60

AJAX — Heavy duck bottom and sides.

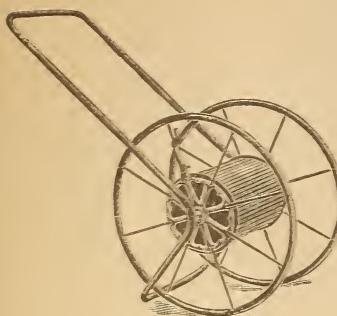
No. 1—\$1.00

No. 2—\$1.10

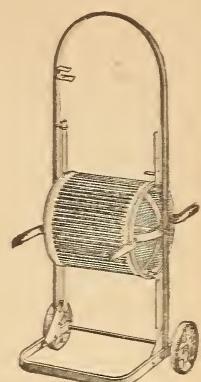
LAWN SUPPLIES

HOSE REELS

ALL IRON



No. 20



No. 10

No. 20—The large rims forming the wheels make this reel very easy to move about. Will not tip over when unreeling.

Price—\$4.50

No. 10—Channel steel frame, strong cast iron wheels, solid steel reel arms, 9 in. drum of heavy corrugated iron. An exceptionally strong, serviceable reel, and will outlast the best wood reel made.

Price—\$2.75

WATER HOSE ELECTRIC

Electric Hose after being under severe test by the largest users of hose in this country, has been adopted by them as their standard hose.

Electric Hose is stronger than any regular made hose of double the number of plies, and, being made of high grade rubber, will wear longer and stand more pressure. Electric Hose will not kink.

Sometime
Somewhere
Someone

may make a hose equal to "Electric"—but it hasn't been done yet.

Fountain Sprinklers

The Fountain Sprays are very durable—made of heavy brass no moving parts to get out of order—very easy to operate

Price—\$1.00



WATER HOSE PRICES

Garden Hose:

	Per ft.
Electric	5 $\frac{1}{2}$ in. 23c
Black Fin.	1 $\frac{1}{2}$ in. 16c
Black Fin.	5 $\frac{1}{2}$ in. 17c
Black Fin.	3 $\frac{1}{4}$ in. 18c
Red Fin.	5 $\frac{1}{2}$ in. 18c

High Pressure air and spray pump Hose:

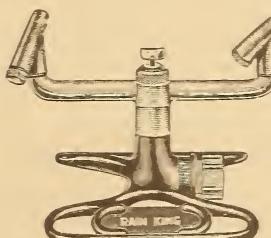
Velvet	3 $\frac{1}{2}$ in. 25c
Velvet	3 $\frac{1}{2}$ in. 30c

Mill Hose:

Blacksnake	1 in. 28c
Velvet	1 $\frac{1}{2}$ in. 43c
Velvet	1 $\frac{1}{2}$ in. 50c
Velvet	2 in. 80c

3-ply Hose coupled in 50 ft lengths 10c ft.

Rain King Sprinkler



Different from any other sprinkler made, may be used as revolving or stationary—fine or coarse, fast or slow—will sprinkle circle from 8 to 80 ft. Will revolve on a lower pressure than any other sprinkler made.

Price—\$3.50

Half Fountain Sprinklers

Made by the same manufacturer as the Fountain, has all of its good features. "Mist-like" spray, covers but half of full circle. Keeps the walk dry. User moves it without getting wet.

Price—85c



ACCESSORIES



Diamond Spray Nozzle

Throws more water farther and enables the user to cover more ground in less time. Made of heavy wrought brass. Durable, water tight; cannot rust.

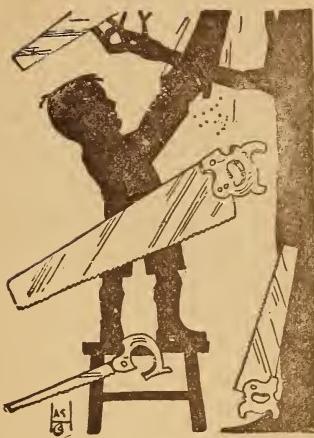
Price 65c

Cream City Galvanized Sprinkling Cans

One piece spout, large oval breast, top and back handles are welded to body, which makes a very strong sprinkler.



	2 Qt.	4 Qt.	6 Qt.	8 Qt.	10 Qt.	12 Qt.	16 Qt.
Galvanized...		75c	85c	\$1.00	\$1.20	\$1.40	\$1.60
Tin.....	30c	45c	55c	.70	.85	1.25	



PRUNING SAWS

No. 1 Saw, 18 in.	\$1.75
No. 1 Saw, 20 in.	1.90
No. 2 Saw, 18 in.	1.15
No. 2 Saw, 20 in.	1.25
No. 7 Saw, 16 in.	2.15
No. 11 Saw, 18 in.	2.00

TREE PRUNERS

10 ft.....	\$2.25
12 ft.....	2.50

BUSH HOOK

For Cutting Under-brush	\$1.75
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PRUNING SHEARS

No. 30....	\$1.00 each
No. 23....	.75 each
No. 65....	1.65 each
No. 290...	3.00 each
No. V30...	3.50 each
Extra Springs..	50c

HEDGE SHEARS

No. 600—6 in.	\$2.00
No. 900—9 in.	2.75
No. 1000—10 in.	3.00

HEDGE KNIVES

No. 75.....	\$1.75
No. 77.....	1.75
No. 9.....	1.35



Garden



Trowels

THE KINGSBURY

Made from one piece heavy gauge steel, handle shaped to fit the hand;
Price

213—6 in. Pressed Steel.....	15c
211—6 in. Forged Steel.....	50c
217—6 in. Narrow Blade.....	20c
2120—6 in. Long Handle.....	50c
211A—4½ in. Berry Trowel.....	60c
216A—6 in. Bulb Trowel.....	75c
217A—7 in. Transplanting Hoe.....	65c
300—3-Tine Spading Fork.....	.45c
200—Ideal Weeder .....	.45c
218—Wood Handle Dibble.....	.50c
2500—Asparagus Knife .....	.50c
88—Dandelion Weeder .....	.25c
82—5-Finger Steel Weeder.....	.25c
83—3-Piece Garden Sets.....	.75c
100—3-Piece Garden Sets.....	.90c

TURF EDGERS

Imperial	50c
No. T. E.	\$1.10

DANDELION SPUD

Reversible Blade .....	.25c
Dock Cutter	\$1.40

GRASS SHEARS

No. V2.....	65c
No. V52.....	75c
No. V7.....	60c
No. V56.....	.90c
No. R4.....	50c

FLOREL SETS

3-Pc Short Handles...	40c
3-Pc Long Handles.	\$1.75

GRASS HOOKS

Little Giant .....	.75c
Junior .....	.50c
No. 3—V. B. ....	.75c
No. 4—V. B. ....	.60c

SHEEP SHEARS

No. V63.....	\$1.75
Cemetery Vases .....	.25c

MISCELLANEOUS

Ear Marking Labels



Exact Size

For Sheep, Hogs, Goats and Cattle

The cut shows our Aluminum Sale Tag. Stamped with large black numerals. Numbers from 1 to 25—1 to 50.

Price: 25, 60c—50, \$1.10—100, \$2.00

Brass Marking Tags, $\frac{5}{8}$ in. in diameter, with black numerals. Numbered from 1 to 100.

Price: \$1.75 per 100

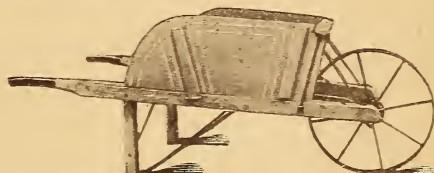
Small Pig Teeth Nippers..... Price \$2.25

Dana Permanent Ear Tags and Punches—Prices vary according to sizes, quantities, initials and numbers. Will quote prices on request.

Garden Wheelbarrows

Made from best of materials. Neatly finished. Iron leg braces, 20 in. iron wheel; every brace bolted. Inside measurements of box, 27 in. long, $18\frac{1}{2}$ in. wide at wheel end, 23 in. wide at handle end. No pine used in its construction.

Price \$7.50



Mounted Grindstones



Tubular steel frame, slightly flexible, permitting same to adjust itself to uneven floors or surfaces. Frame is narrow at top, making it convenient to apply power. Spread at base, giving greater rigidity. Bi-Treadle, with power, properly applied. Stone movable horizontally on frame to suit convenience of operator.

Ball bearing journals and crank attachments fitted with detachable steel axle.

Seat made of steel, adjustable vertically 4 to 5 inches. Made in one size and furnished with one stone, guaranteed best quality Berea Grit, for general grinding. 20 to 22 inches in diameter, $1\frac{3}{4}$ to $2\frac{1}{4}$ in. thick. Price \$10.00.

RU-BER-OID ROOFING

There are many Ruberoid Roofs still in splendid condition, which were laid thirty years ago. An uncounted number of Ruberoid roofs have withstood fifteen, twenty and twenty-five years of service, without indicating the limit of their endurance.

Ruberoid is the best prepared roofing that the Ruberoid Co. can make, and they have had longer experience in the manufacture of prepared roofings than any other concern in the United States.

Price per Square Ruberoid—Medium \$3.15. Heavy \$3.75. Ex. Heavy \$4.15.

Price per Square Starex—Light \$1.55. Medium \$1.90. Heavy \$2.30.

Starex is made of cheaper materials, and put out to meet the demand for a medium priced roofing. It is a good piece of roofing for the price.

Our slate surfaced, green and red roofing can't be better for the price—\$2.65 per square. It is put up in strip shingles for \$6.45 per square.



Lawn and Garden Fertilizers

ARMOUR'S SPECIAL LAWN AND GARDEN 3-11-1

Make first application in spring, soon after frost leaves the ground. Apply 25 lbs. per thousand square feet. Follow with same application every sixty days. When seeding new lawns, use 50 lbs. per thousand square feet. Rake thoroughly into ground and then seed. For garden use, apply at the rate of 600 lbs. per acre. Mix thoroughly with the soil before seeding or transplanting. Price—50 lb. sack, \$1.75. 100 lb. sack, \$3.00.

BIG CROP RAW BONE MEAL 4½-22

Made from an accumulation of slaughter house bones, steamed enough to soften and make action more rapid. Best annual fertilizer manufactured. Excellent for rose beds and plants, vines, shrubs and trees—fruit or shade. Also good for bulbs indoors or outside. For roses and plants 50 lbs. per cubic yard; 25 lbs. each for grown trees; shrubs and vines use at rate of 500 lbs. per acre. Price—5 lb. pkg. 40c; 10 lb. pkg. 70c; 25 lb. sack \$1.35; 50 lb. sack \$2.25; 100 lb. sack \$3.50.

WIZARD SHEEP MANURE Makes Beautiful Lawns and Gardens

If you want a more beautiful lawn and garden plan to do most of your garden work in Fall instead of Spring. Fall planting in a rich fertile soil is, according to successful gardeners, the real secret of success. So plant everything you can in Fall—and let your first thought be the preparation of a rich fertile soil to develop the full possibilities of your garden.



have planned and plant perennials and shrubs in their permanent location. All Fall work insures an established planting ready to start off rugged and strong with the first breath of Spring, fully a month or more before you can begin any planting in Spring.

A Fertile Soil Insures Success

Whatever you do, don't forget the needs of your plants because you cannot get results on a poor wornout soil. Wizard Sheep Manure improves the soil and gives it just what it needs to make plants grow to perfection. Wizard is economical, convenient and absolutely weedless. One bag will prove as effective as a WHOLE WAGON LOAD OF STABLE MANURE. Use Wizard in the Fall and you will have a better lawn and garden the next Spring.

Beware of the inferior substitutes now on the market, which are being sold as Sheep Manure. If you want results and the best Sheep Manure on the market—insist on Wizard Brand. Wizard is genuine Sheep Manure and you can depend upon it for results.

Price—2 lb. pkg. 20c; 5 lb. pkg. 35c; 10 lb. pkg. 65c;
100 lb. sack \$3.25.

DON'T PLANT WITHOUT WIZARD BRAND



BULBS, PLANTS and NURSERY STOCK

SECTION

...Introductory...

TWO YEARS AGO WHEN WE OPENED OUR GARDEN SEED DEPARTMENT WE ADOPTED THE SLOGAN

"Buy Your Seeds at Home"

IN TWO YEARS TIME THIS DEPARTMENT HAS GROWN TO SUCH PROPORTIONS THAT OUR 1924 SLOGAN IS

"Buy Your Garden Seeds, Plants,
Bulbs and Nursery Stock at Home"

WE EXERCISED THE SAME CARE AND THOROUGH RESEARCH IN SELECTING OUR LINE OF NURSERY STOCK AS WE DID WHEN SELECTING LEONARD GARDEN SEEDS.

WE CAN TRUTHFULLY SAY, AS HAVE MANY WHOM WE SOLD NURSERY STOCK TO THIS FALL, THAT WE CAN'T SEE HOW IT IS POSSIBLE TO GROW BETTER.

OUR NURSERY CONNECTION IS DIRECT WITH NORTHERN ILLINOIS GROWERS (THEREFORE ACCLIMATED TO THIS TERRITORY) BACKED UP BY 30 YEARS OF FAITHFUL SERVICE—EVERYTHING BEING OF THE HIGHEST GRADE AND QUALITY, ALSO TRUE TO NAME.

A COPY OF INSPECTION FROM STATE ENTOMOLOGIST WITH EACH AND EVERY ORDER.

Think of Seeds, Plants, Bulbs and Shrubs ... Think of BARRETT'S

GLADIOLI

"The Glory of the Garden"

The improved Gladiolus is one of the most beautiful of the summer blooming flowers, and it is so easily grown as to be within the reach of anyone. This flower is now very popular and is becoming more and more of a favorite each year because of the remarkable improvements in size and delicate colorings rivaled only in the tropical orchids. There is a touch of grandeur and magnificence about it that places it in a distinctly superior class. It is easily grown and may be had in bloom nearly four months in the year in the Northern climate without the aid of glass, and it possesses a combination of characteristics that appeals to all flower lovers.

The blossoms are wonderful in form and size, and embrace a beautiful range of colors with almost an endless number of combinations impossible to describe. New varieties are continually appearing from the plain petaled sorts to charming ruffled and beautifully lacinated types, which is a proof of the increasing interest in this wonderfully responsive flower. It has a capacity for taking up water which enables it to go on blooming to the very tip of the spike after being cut, lasting a week or more in the hottest weather.

Invest a few dollars in Gladiolus bulbs this year, for in no other way can you purchase so much pleasure as you will get from these bulbs. The money will be well spent and you are making a permanent investment because your Gladiolus bulbs increase year by year. Every time you walk into your garden or glance at the bouquet on your table you will be glad you spent the money.

HOW TO GROW BEAUTIFUL GLADIOLI

With every order we send free a leaflet, telling When and How to Plant Gladiolus Bulbs, proper soil and location, cultivation, cutting the blooms, harvesting and storing the bulbs and bulblets.



WE OFFER SOME OF THE CHOICEST VARIETIES GROWN

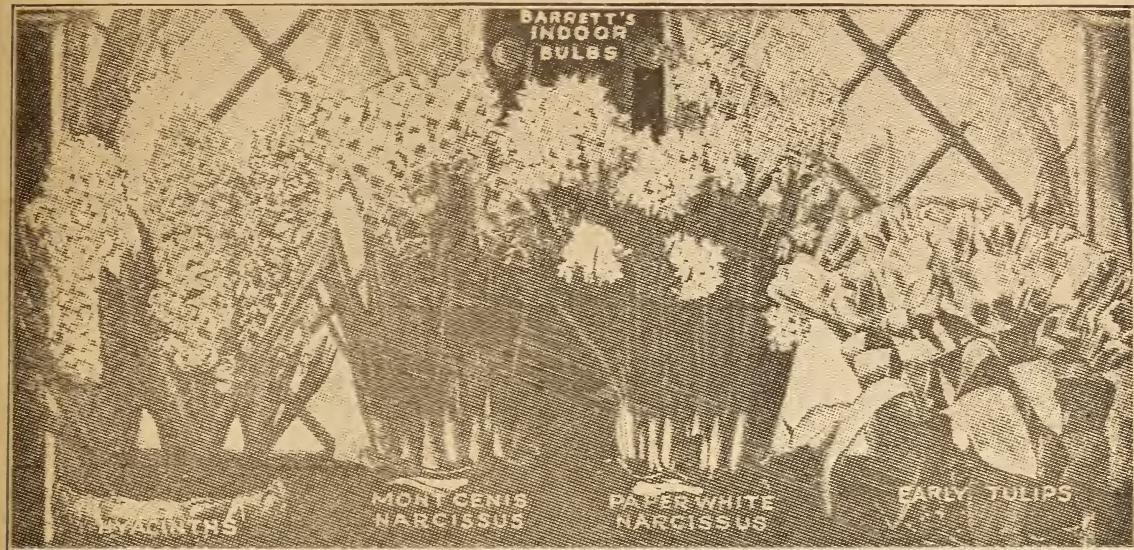
Halley	Bright Salmon Pink
Francis King	Rich Flame, Red Dark Throat
War	A Very Large Blood Red
Mrs. Watt	American Beauty Rose Color
Schwaben	Clear Canary Yellow
Mrs. Frank Pendleton	Apple Blossom and Rose
Sentinel	Rose Pink and White
Attraction	Deep Crimson and White
Distinction	Dark Violet
Pink Perfection	La France Pink
Prince of Wales	Pure Salmon
White Giant	An Enormous Pure White

The named varieties are only a few of the many we have for your selection.

Prices from

5c Each—50c a Dozen 50c Each—\$5.00 a Dozen

In buying bulbs size is no criterion, as many choice sorts do not produce large bulbs. The essentials are that the bulbs be well developed, firm, healthy, and of blooming age, which large ones are often past.



FLOWERING BULBS FOR FALL PLANTING

Fall Bulbs Planted in the Garden, Beds or Lawn are Gorgeously Effective When in Flower During the Spring. Our Stock contains the Largest and Best Bulbs That the Variety Produces Direct from the Growers at Sassenheim, Holland

HYACINTHS

	Each	Doz.
L'INNOCENCE—Pure White	\$.14	\$1.40
GERTRUDE—Beautiful Pink	.14	1.40
LADY DERBY—Rose Pink	.14	1.40
GRAND MAITRE—Lavender Blue	.15	1.50
YELLOW HAMMER—Clear Yellow	.14	1.40
Forcing Sizes—each 20c. dozen \$2.00		

NARCISSUS (Mother Bulbs)

EMPEROR—White Parianth,	Yellow Trumpet	.09	.90
EMPEROR—Primrose Parianth,	Yellow Trumpet	.09	.90
VICTORIA—Cream White Parianth	Yellow Trumpet	.10	1.00
GOLDEN SPUR—Grandest of All	Yellows	.09	.90
LUCIFER—White Parianth, Orange	Red Cup	.09	.90
KING ALFRED—Beautiful All	Golden Yellow	.20	2.00
POETICUS ORNATUS—White	Flower, Saffron Cup	.06	.60
GLORY OF SASSENHEIM—	White, Yellow Trumpet	.10	1.00
VON SION—Famous Dutch, Golden	Yellow Daffodil	.10	1.00
POETAZ ELVIRA—Clustered	Flowered Daffodil, Heavy White		
	Petals, Bright Yellow Cup	.10	1.00

BREEDER TULIPS

BRONZE QUEEN—Soft buff, tinged with golden bronze yellow	.08	.75
BRONZE KING—A curious blending of mauve and rose which changes to bronze orange. Attractive	.10	1.00
PRESIDENT LINCOLN—Light Violet	.07	.65

DARWIN TULIPS

	Each	Doz.
BARONNE DE LA TONNAYE—		
Carmine Rose	.06	.60
FARN COMBE SANDERS—		
Orange Scarlet	.08	.80
MADAME KRELAGE—Bright Lilac		
Rose	.08	.75
MASSACHUSETTS—Vivid Pink	.08	.80
PRIDE OF HARLEM—Bright		
Rose and Purple	.06	.60
REV. H. EW BANK—Heliotrope		
Lilac	.07	.70
CLARA BUTT—Salmon Rose Pink	.06	.60
SIERAAD VAN FLORA—Bright		
Red	.08	.75
WM. COPELAND—Bright Violet	.08	.80
ZULU—Purple Black	.08	.75
INGLES COMBE PINK—Pink		
Salmon Queen	.08	.80

SINGLE EARLY TULIPS

COTTAGE MAID—Carmine Pink	.07	.70
KAISER KROON—Crimson Scarlet	.07	.75
LAREINE—White Pink	.06	.60
THOMAS MOORE—Orange	.06	.65
ARTUS—Deep Red	.06	.60
MCKINLEY—Orange Red	.08	.75

DOUBLE EARLY TULIPS

IMPERATOR RUBRORUM—		
Bright Scarlet	.09	.90
LA CANDEUR—Pure White	.08	.80
MURILLO—Blush White	.05	.55
SALVATOR ROSA—Deep Rose	.08	.80
TEA ROSE—Pale Yellow	.05	.55
COURONNE D'OR—Golden Yellow	.08	.80

CROCUS

Yellow, Purple, White and Striped	.35c doz.	\$2.50 100
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Here are just a few remarks from Mr. Winter, proprietor of the Nursery from whom we purchase our stock:

The Quality and High Grade of Stock listed in this catalog is not to be classed with other catalog stock. Our stock is extra heavy and handled in a first-class manner from the time it is planted in the nursery until it reaches our customer.

Do not hesitate in placing an order. We'll always treat you right.

ATTENTION—PLEASE

In regard to varieties. The most of our customers who have planted orchards the last years, have left the entire selection to us; only stating how many early, medium, or late kinds wanted. We will choose the best varieties for this climate, for cropping, eating, or for market. I will certainly take pleasure in doing this for our customers. I think I can serve them better than they could themselves, as I have judged the fruit exhibit at The Illinois State Fair for a number of years. I also handled the fruit exhibit at the Illinois State Horticultural Meeting for some years, and I think I ought to be capable of being of some benefit to customers in choosing varieties for their orchard planting.

LANDSCAPE DEPARTMENT

We have in our employ a first-class Landscape man. One who is capable of laying out or planting any design. For private homes, parks, or any large estates. Nothing too large for us to handle. Anyone wishing such work done, we will be glad to send our man to thoroughly inspect the grounds, make a drawing of same, and furnish an estimate of what the work will cost.

NURSERY STOCK

APPLES AND CRAB APPLES

	Each	Dozen
No. 1 Grade—3 years.....	\$1.00	\$11.00
Extra Heavy Grade—3 years.....	1.25	14.00

SUMMER AND AUTUMN

- ✓ Red June—Upright growing, very dark red, ripening with the very earliest.
- ✓ Early Harvest—Early summer apple, very popular, pale yellow.
- ✓ Duchess of Oldenburg—Good sized, striped with red and yellow. Very young heavy cropper. Most popular summer apple.
- ✓ Wealthy—Large red, sub-acid, very productive. Best Fall variety for this locality.
- ✓ Autumn Strawberry—Medium sized, tender, juicy and productive.
- ✓ Snow—Medium sized. Deep crimson striped, white flesh. An old popular variety.

WINTER APPLES

- ✓ Ben Davis—Large, handsome striped, heavy cropper, and a long keeper.
- ✓ Dominie—Large greenish, yellow striped, very tender and juicy. Good popular variety.
- ✓ Gano—Deep red, flesh pale yellow, tender, mild and a good keeper.
- ✓ Grimes Golden Pippen—Medium sized. Beautiful golden yellow. High quality.
- ✓ Jonathan—Medium sized, rich, juicy, red with yellow shade. Young cropper.
- ✓ McIntosh Red—Deep crimson, highest quality, good size, very choice.
- ✓ North-Western Greening—Heavy robust grower. Greenish yellow, long keeper and heavy cropper.
- ✓ Salome—Hardy, very productive, long keeper.
- ✓ Winesap—Medium sized, dark red, sub-acid, good quality, long keeper.
- ✓ Winter Banana—Vigorous growing tree. Early bearer, good size, handsome yellow fruit shaded with pinkish blush.
- ✓ Delicious—The apple being so highly recommended throughout the country for its high quality. Supposed to be the finest quality grown. Commands highest prices on the market, @ \$1.25 each.

CRAB APPLES

Florence—Large and far superior to the Transcendent. An early and profuse bearer. Yellowish pink.

Hyslop—Deep crimson. One of the most beautiful red, very popular.

Whitney No. 20—Large, skin smooth, glossy green striped, splashed with crimson. Very popular. Tree fine shapely grower.

Martha—Beautiful glossy yellow, shaded red, never blights.

PEARS

	Each	Dozen
No. 1 Grade—3 years.....	\$1.00	\$11.00
Extra Heavy Grade—3 years.....	1.25	14.00

- ✓ Kieffer—Large, handsome appearing, late Fall. Best for canning and shipping.
- ✓ Bartlett—Large sized, color yellow, very juicy and high flavored. Best quality. Bears early and abundant.
- ✓ Seckel—Small yellowish russet. Sweet, and very good quality. Last of August.
- ✓ Duchess D'A., Dwarf—The largest pears grown. Good cropper, very good quality. Dwarf tree.

CHERRIES

	Each	Dozen
No. 1 Grade—3 years.....	\$1.25	\$14.00
Extra Heavy Grade—3 years 1.50 and 2.00		14.00

- ✓ May Duke—Large red, juicy, and rich.
- ✓ Early Richmond—Medium sized, dark red. Old fashioned, best early cherry.
- ✓ Montmorency—Large, medium early, productive, and a good all around cherry. Ripens 10 days later than Early Richmond.
- ✓ Wragg—Black, very late, heavy cropper.
- ✓ Compass—New. Fine for canning or eating, heavy cropper. Cross between a cherry and plum.

PLUMS

	Each	Dozen
No. 1 Grade—3 years.....	\$1.00	\$11.00
Extra Heavy Grade—3 years.....	1.25	14.00

- ✓ Lombard—A very large blue. Juicy and a heavy cropper.
- ✓ Shippers' Pride—Large fruit, dark purple color, excellent for canning.
- ✓ Burbank—Large, globular, brick-colored. Flesh yellow, medium early.
- ✓ Green Gage—Greenish color, medium sized, good quality.



35,000 Peach in This Block



10,000 Hardy Hydrangea

HANSEN HYBRID PLUMS

Opata—Very early and productive, fruit of medium size. Dark red skin, green flesh, good quality.

Sapa—Skin dark purple, flesh dark red. An early bearer, and a good cropper.

PEACHES

	Each	Dozen
No. 1 Grade.....	\$.75	\$ 8.00
Extra Heavy Grade.....	1.00	11.00

Greensboro—Large, juicy, beautiful colored, very early.

Champion—One of the very largest. Medium early, white with red cheek. Very juicy, heavy cropper.

Elberta—Very largest market and canning peach. Color yellow. Meat firm.

QUINCE

	Each	
No. 1 Grade.....	\$1.50	

Meech's Prolific—Large fruit and good for preserving.

APRICOT

	Each	
No. 1 Grade.....	\$1.50	

Early Golden—Yellow fruit. Fine for eating or canning.

MULBERRY

	Each	
No. 1 Grade.....	\$1.00	
Extra Heavy Grade.....	1.50	

Russian—A strong, hardy, rapid growing tree, and a good cropper.

GRAPES

Concord—The old reliable black grape. Does not need any description. 2 year old @ 35c each—\$3.50 per dozen. 3 year old @ 40c each—\$4.00 per dozen.

Moores Early—Very large black. One of the earliest, @ 50c each—\$5.00 per dozen.

Niagara—This choice and profitable variety, is one of the best white. Bunches very large and compact, @ 50c each—\$4.50 per dozen.

Agawam—Very large. Color light red. Rich aromatic flavor, @ 50c each—\$4.50 per dozen.

Brighton—Color dark red. Flesh rich, and of best quality, @ 50c each—\$4.50 per dozen.

CURRANTS

Fays Prolific—Large red. The old standard variety. Very large fruit. First class, @ 40c each—\$3.50 per dozen.

Cherry—Fruit large red. Somewhat on the order of Fays prolific. First class, @ 40c each—\$3.50 per dozen.

White Grape—Color white. Mild; good for eating or canning, @ 40c each—\$3.50 per dozen.

Lee's Prolific—Black. Very good English variety. Large fruit, @ 40c each—\$3.50 per dozen.

Perfection—Large red, best of all. Very heaviest cropper, and very satisfactory. The Best currant grown to this day. Fine for table use when ripe. First class @ 50c each—\$4.50 per dozen.

GOOSEBERRIES

Downing—Fruit large, light green. Flesh soft, juicy and fine flavored, @ 40c each—\$3.50 per dozen.

Smith's Improved—Good sized, greenish yellow. Very satisfactory. Considered the best, @ 40c each—\$3.50 per dozen.

Red Jacket—American variety, large, color red. Good quality, @ 40c each—\$3.50 per dozen.

RASPBERRIES

Gregg—Black. Old popular variety of Black caps, @ \$1.00 per dozen—\$7.00 per 100.

Cumberland—Black Cap. Very best all around raspberry. Large and heavy cropper, 1 year No. 1 @ \$1.00 per dozen—\$7.00 per hundred. 2 year No. 1 @ \$1.50 per dozen—\$10.00 per 100.

Columbian Red—Dark red, propogates from tips, same as Black caps. Does not spread. Heavy cropper. 1 year No. 1 @ \$1.25 per dozen—\$8.00 per 100. 2 year No. 1 @ \$1.50 per dozen—\$10.00 per 100.

Early King—Light Red. Strong grower and perfectly hardy. Heavy cropper and good shipper. 1 year No. 1 @ \$1.00 per dozen—\$7.00 per 100.

Cuthbert—Large deep rich Crimson. Firm and of excellent quality. Hardy and very productive, @ \$1.25 per dozen—\$8.00 per 100.

Golden Queen—A seedling of the Cuthbert. Color Golden yellow. Heavy cropper, extra fine quality, @ \$1.50 per dozen—\$10.00 per 100.

St. Regis—Everbearing—The everbearing Raspberry. Color red and of good quality. Also a good cropper in the Fall as well as the Spring, @ \$1.50 per dozen—\$10.00 per 100.

BLACKBERRIES AND DEWBERRIES

Snyder—The only hardy profitable blackberry of this community. Extra strong, @ \$1.25 per dozen—\$8.00 per 100.

Eldorado—Supposed to be hardy. Large fruit and one of the newer popular varieties. Extra strong @ \$1.50 per dozen—\$10.00 per 100.

Lucretia Dewberries—Low growing trailing blackberries. In size and quality it equals any of the upright growing varieties. Extra fine @ \$1.50 per dozen—\$10.00 per 100.

STRAWBERRIES

These varieties we would recommend most highly of all. Leave selection to us, and we will give you the most suitable varieties for best results. Also handle other varieties not listed.

Senator Dunlap—Leading variety. Color dark red. Good size and very productive. One of the best for market.

Bederwood—One of the best early. Good crop per.

Gandy Prize—For our best late variety.

Sample—Also best late variety.

General collection of above varieties @ \$2.00 per 100.—\$10.00 per 1,000.

Progressive (Everbearing)—New everbearing. Bears late in Fall, @ \$3.00 per 100.

ASPARAGUS

	Dosen	Per Doz.
Two year No. 1.	\$.75	\$4.50

Improved Palmetto—Strong 2 year plants. The best of all varieties.

RHUBARB

Wineplant—Supposed to be the best standard variety @ 25c each—\$2.50 per dozen.

SHADE AND ORNAMENTAL TREES

Ailanthus—Or Tree of Heaven—Fine ornamental tree for lawn planting @ \$1.00 each

Ash, European Mountain—Choice dwarf growing, bearing large clusters of red berries. A good ornamental tree @ \$1.25-\$2.00 each according to size.

Birch, Cut Leafed—Snow white bark and drooping branches. Fringed leafed and very ornamental @ \$2.50 each.

Crab—Bechtel's Double Flowering—Beautiful double rose-like flower. Very sweet scented. Beautiful lawn tree. Dwarf @ \$1.25-\$1.50 each according to size.

Elm, American White—needs no description, @ \$1.50 to \$2.50 each according to size.

Horse Chestnut—European—Dense green, beautiful foliage. Very shapely tree @ \$2.50 each.

Judas Tree or Red Bud—Dwarf growing tree. Covered with mass of red flowers before the leaves appear in the Spring, @ \$1.25 each.

Maple Golden—New and rare. Golden leafed. Has bright red bark in the winter, very showy, @ \$2.50 each.

Maple, Norway—Has large compact habit, with broad deep green foliage, and vigorous growth. From \$1.25 to \$3.00 each, according to size.

Maple Sugar—A stately form with fine rich foliage @ \$1.50 to \$3.00 each, according to size.

Maple, Silver or Soft—@ \$1.50 to \$2.50 each according to size.

Maple, Swedlerii or Blood Leafed—Choice of all the Maple family. GOOD FOR SHADE and a rare ornamental tree. Foliage blood red and very showy when leafed out, @ \$5.00 each.

Maple, Weir's Cut Leafed—Rapid growing, drooping habit, with fringed leaf, @ \$1.50 to \$2.50 each.

Poplar, Carolina—The most rapid growing of all shade trees, @ \$1.00-\$1.50-\$2.00 each according to size.

Purple Fringe or Smoke Tree—Dwarf growing tree. Feathery purple flowers, which give a smoky effect to tree, @ \$1.50 each.

Sycamore, American—Becoming the most popular hard-wooded tree of this western country. Large foliage, and rapid growing, @ \$1.50 to \$2.50 each according to size.

ORNAMENTAL WEEPING TREES

Catalpa Bungeii or Umbrella Tree—Very umbrella like appearance. Fine tree for lawn. Grafted tops, @ \$2.50 to \$3.50 each according to size

Elm, Camperdown Weeping—Vigorous grower, and forms one of the most picturesque drooping trees. Large and green glossy foliage and rapid growing, @ \$3.50 each.

Mulberry, Teas' Weeping—One of the finest weeping trees for lawn planting. Also bearing full of red fruit in the summer, @ \$3.50 each.

ORNAMENTAL SHRUBS

Spirea Van Houtte or Bridalwreath—The most showy of all Spireas. Completely covered with snow white flowers. One of the best hardy shrubs. No. 1 grade @ 50c each, \$5.00 per dozen. Extra heavy grade @ 75c each, \$8.00 per dozen.

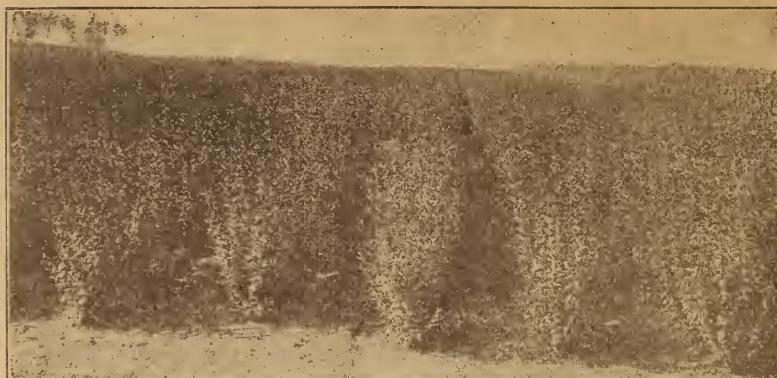
Spirea Thunbergii—Medium low growing, white flowers, @ 50c each—\$5.00 per dozen.

Spirea Anthony Waterer—Or dwarf spirea. Commencing to bloom in June, and will continue almost throughout the Summer. Red clusters of blossoms. No. 1 grade @ 50c each—\$5.00 per dozen. Extra heavy grade @ 75c each—\$8.00 per dozen.

Spirea Callosa Alba—A white flowering variety of dwarf habit. No. 1 grade @ 50c each—\$5.00 per dozen. Extra heavy grade @ 75c each—\$8.00 per dozen.



50,000 Choice Japanese Barberry in This Block



35,000 Choice Amoor River Hedge Plants in This Block

ORNAMENTAL SHRUBS—(Continued)

Spirea Billardi—Pink plume like blossom, late Fall, @ 50c each—\$5.00 per dozen.

Butterfly Bush—A new plant which is heavily advertised. A Summer blooming Lilac. Strong blooming plants, continuous bloomer, @ 75c each.

Hydrangea Paniculata Grandiflora—A fine hardy shrub with largest white flowers turning to pink, and sometimes reaching 10 to 12 inches in diameter, with proper care. Bush form @ 75c and \$1.00 each. Also TREE FORM @ \$2.50 each.

Hydrangea, New Everblooming—Known as Hills of Snow. Supposed to be Everblooming, @ 75c and \$1.00 each.

Red Dogwood or Cornus—Beautiful for its bright red shiny bark in the Winter. Very desirable, @ 50c each—\$5.00 per dozen.

Yellow Dogwood—New. Bark yellow as butter. Great contrast with above. A shrub for winter effect, @ 75c each—\$8.00 per dozen.

Philadelphus or Mock Orange—Very showy plant with waxy sweet scented white flowers, @ 60c and 75c each.

Forsythia or Golden Bell—A fine shrub. Blossoms golden yellow before the leaves appear in the Spring. Very showy, @ 50c each—\$5.00 per dozen.

Bush Honeysuckle—Very hardy and good for ornamental planting. Pinkish red bloom late in the season, becoming covered with red berries in the Fall. Three varieties @ 50c each—\$5.00 per dozen.

Weigelia Rosea—Elegant shrub with colored flowers. Blooms in May, @ 75c each—\$8.00 per dozen.

Weigelia Eva Rathke—Good bloomer, rich red flower, @ 85c each—\$10.00 per dozen.

Currant Yellow Flowering—One of the best sweet scented, early yellow blooming, shrubs @ 50c each—\$5.00 per dozen.

Lilac, Persian Purple—One of the freest bloomers of all, @ 50c 75c and \$1.00 each according to size.

Lilac, White—White flowering, sweet scented, @ 50c each—\$5.00 per dozen.

Snowball—A plant which does not need any description. Fine plants @ 50c and 75c each.

High Bush Cranberry—Species of snowball. Heavily covered with red berries in the Fall. Fine foliage, @ 50c and 75c each.

Viburnum Lantana—Or way-faring tree, @ 75c each.

White Snowberry—Very fine shrub. Completely covered with white berries after the leaves drop in the Fall, @ 50c and 75c each.

Golden Elder—Noted for its yellow foliage. Strong growing plants @ 50c each.

Rhodotypos Kerrioides—Choice Japanese shrub. Noted for its beautiful foliage and white flowers, @ 50c each.

Double Flowering Almond—Very double, rose shaped, small flower. Very beautiful, @ \$1.00 each.

Althea, Rose of Sharon—Choice variety of late showy flowering plant. In four colors, 75c and \$1.00 each according to size.

Calycanthus or Sweet Scented Shrub—Chocolate colored blossoms, with the most highly scented bark of all shrubs, @ 50c each.

Rhus, Cut-Leaved—Very fringed leafed foliage, changing to highly colored foliage in the Autumn. Very attractive, @ 50c each.

Rhus Aromatica—The sweet scented Rhus. A very rare plant, @ 75c each.

Tamarix—New variety. Very showy fringed leafed plant, with pinkish plume like bloom, @ 75c each.

Aralia Spinosa—A very wonderful large shrub or small tree. Has dark green fern like foliage of enormous size, @ 75c each.

Japan Quince—Planted alone is very attractive. Brilliant crimson flowers. Among the first in the Spring, @ 50c each—\$5.00 per dozen.

Deutzia, Pride of Rochester—Very ornamental flowering shrub, @ 50c each.

ORNAMENTAL HEDGE FOR LAWN PLANTING

Privet, Amoor River—The only good strictly hardy Privet grown. Thornless, and stands pruning to any desired shape. Privet is one of our specialties, and have grown it for twenty years, and highly recommend it for lawn hedging. It greatly beautifies, and improves property. To be planted 10 inches to one foot apart for a good compact hedge. Four sizes @ \$15.00, \$20.00, \$25.00 and \$30.00 per 100.

Barberry Thunbergii or Japan Barberry—A pretty species of dwarf habit, small foliage, changing to coppery red in the Autumn. Very desirable for clump planting in Landscape work, and ornamental hedging. After foliage drops in the Fall, it is covered with red berries. Can be trimmed to any desired shape if so wanted. We can furnish these in three different sizes as follows: 25c each, \$3.00 per dozen or \$20.00 per 100—30c each, \$3.50 per dozen or \$25.00 per 100—35c each, \$4.00 per dozen or \$30.00 per 100.

HARDY CLIMBING VINES

Boston Ivy or Ampelopsis Veitchii—Very beautiful plant, clings to any smooth surface. Leaves color most beautiful red in Autumn. Best and most popular of all climbing vines. 2 year old @ 50c—3 year old @ 75c—4 year old @ \$1.00 each.

Virginia Creeper or Ampelopsis Engelmannii—Very strong growing plants for covering trellises. Very clean foliage which does not mildew. Most rapid climber, @ 75c and \$1.00 each.

Hall's Japan Honeysuckle—A strong, vigorous, almost evergreen sort, with pure white flowers, changing to yellow. Very fragrant, @ 75c each.

Scarlet Honeysuckle—A strong grower, and produces unodorous flowers all summer, @ 50c and 75c each.

Purple Wistaria—Produces long tresses of purple flowers, @ 50c and 75c each.

Clematis paniculata—One of the most showy of all flowering climbing vines. With solid mass of bloom in August and September. Flower white, very fragrant, @ 75c and \$1.00 each.

Clematis Jackmanii—Very large flowering, dark blue, very showy, @ \$1.25 each.

Clematis Henryii—Very large white flowering and very showy, @ \$1.25 each.

Matrimony Vine—A vigorous, hardy climber. Dark green foliage, @ 50c each.

Trumpet Vine—Good hardy climber, with clusters of large, trumpet shaped, scarlet flowers in August, @ 50c each.

HARDY CLIMBING ROSES

Crimson Rambler—Bright crimson flowers, in large dark red clusters, @ 75c and \$1.00 each.

Dorothy Perkins—Pink or white. Beautiful clusters of shell pink or white flowers, @ 75c and \$1.00 each.

Excelsa—Color deep crimson and scarlet. Flowers large and double; coming in clusters. Profuse bloomer, @ 75c and \$1.00 each.

Prairie Queen—Bright, large, rosy red. Similar to Hardy Perpetual roses, @ 50c each.

Hiawatha—Blooms large clusters of single flowers, of intense deep crimson. Makes a very effective showing, @ 75c and \$1.00 each.

HARDY

PERPETUAL ROSES

Lady Hillingdon—Yellow. Makes exquisite buds of deep apricot yellow, shading to orange. Very fragrant, and a free bloomer, @ 75c and \$1.00 each.

Mme. Caroline Testout—Clear rich pink, finely edged with rose color, @ 75c and \$1.00 each.

Gruss An Teplitz—Deep crimson, passing to fiery red. Freest bloomer of all, @ 75c and \$1.00 each.

F. K. Drushki—The best white in existence. With long buds, and immense double flowers. Blooms continuously, @ 75c and \$1.00 each.

Paul Neyron—The best and largest rose. Clear pink, and the freest bloomer, @ 75c and \$1.00 each.

M. P. Wilder—Extra large flowers. Color deep red. Strong grower, and free bloomer, @ 75c and \$1.00 each.

Caprice—Striped pink and white, @ 75c and \$1.00 each.

Prince Camille de Rohan—Very dark, velvety crimson, almost black. Best dark rose produced. Flowers large and sweet, @ 75c each.

Rosa Rubrifolia—Purple foliage, pink flowers, @ 75c each.

EVERGREENS

Yucca Filamentosa—An evergreen plant holding its green foliage all Winter. It has blossom stems about 3 feet in height, with cream colored, waxy white, bell shaped flowers, @ \$1.00 each.

PAEONIES

This is the wonderful decoration day flower, and one of the oldest and finest of all flowers grown. Once planted, always there, and increases in number of blossoms each year as the roots grow larger. We have an exceptionally fine collection of the choicest varieties in double red, white and pink, and the different shades in between. Our plants are not to be compared with cheap varieties in cut-up plants usually listed. Larger grades of plants listed will bloom the first season with little care.

Couronne d'Or—White, reflexed yellow, tipped with carmine. Large flat rose type, @ 75c and \$1.00 each.

Delicatissima—Pale lilac rose, with creamy white stigmas. Strong, tall grower, @ 75c and \$1.00 each.

Duchesse de Nemours—Sulphur white, with pure white crown, with greenish reflex, @ 75c and \$1.00 each.

Edulis Superba—Bright dark pink, shaded with violet. Large strong, upright grower, @ 75c and \$1.00 each.

Felix Crousse—Very brilliant red. Flame center. Strong grower, @ \$1.00 and \$1.25 each.



Block of Our Amoor River Privet North—The Only Strictly Hardy Privet Grown

PAEONIES—(Continued)

Festiva Maxima—Snow white, flecked crimson. Creamy white at base of petals, @ 75c and \$1.00 each.

Glory of Boskoop—Color pure white, well shaped bloom. Fine bloomer, midseason, @ 75c and \$1.00 each.

Livingstone—Pretty, soft pink, with silvery reflex. Center flecked carmine, @ \$1.50 each.

Louis Van Houtte—Red shading to dark crimson. Semi-rose type. Fragrant, @ 75c and \$1.00 each.

Mme. De Verneville—Pure white, center blush, fading to pure white, @ 75c and \$1.00 each.

Mons Jules Elie—Pale rose lilac, with silvery reflex. Collar amber, yellow shaded, @ \$1.50 and \$2.00 each.

Neptune—Lilac, white, with milk white collar. Light flesh salmon, @ 75c and \$1.00 each.

Queen Victoria—Milk white, slightly pink. Pale lilac tinted, @ 75c and \$1.00 each.

Richardson's Rubra Superba—Lively carmine amaranth color. Large, fragrant rose type, @ \$1.50 each.

Rose Fragrance—American Beauty style, sweet scented, @ 75c and \$1.00 each.

Venus—Delicate pink. Our very choicest pink grown, @ \$1.50 each.

Delachi—One of our very darkest reds, @ \$1.00 each.

Exposition d'Lille—French variety, red and pink, very rare, @ \$1.00 each.

HARDY PERENNIALS

Aquilegia or Columbine—The most showy of all columbine. Flower large, very attractive, blue and white. Very satisfactory. Have also several other varieties, @ 25c each—\$2.75 per dozen.

Delphinium or Larkspur—Very hardy. Long showy spikes of flowers, from June till frost. Light blue, dark blue and white, @ 25c each—\$2.75 per dozen.

Bleeding Heart—Perfectly hardy. Rose colored, very drooping habit. Large blooming size @ \$1.00 each.

Oriental Poppy—Strictly hardy. Very flashy color. Early and attractive. Very noticeable anywhere. Blooming size plants @ 35c each—\$4.00 per dozen.

Lilly of the Valley—Thrives well in deep shade. An old and popular plant. Most fragrant of all flowers, @ 25c each—\$2.75 per dozen.

Hardy Phlox—One of the choicest perennials of all. Blooms most all Summer. We have all shades and colors, in 10 varieties, which are very attractive and sure to please lovers of flowers. Strong blooming size plants @ 25c each—\$2.75 per dozen.

German Iris—Perfectly hardy. Thrives most anywhere. We have from the earliest to the very latest varieties, in assorted colors. Also from dwarf to the tallest. Large assortment of varieties. Leave collections to us and we will furnish the best varieties, @ 25c each—\$2.75 per dozen.

Hemerocallis or Strictly Hardy Lillies—Orange and lemon colored. Orange colored is the dwarf variety, early blooming. Lemon colored is the tall grower, and a late bloomer, @ 35c each—\$4.00 per dozen.

Pyrethrum—Strictly late flowering white daisy, @ 25c each—\$2.75 per dozen.

Chrysanthemum—Hardy, late, Fall flowering. Very ornamental. 3 colors—red, white and yellow, @ 35c each—\$4.00 per dozen.

Shasta Daisy—One of the choice daisies for early Summer blooming, @ 25c each—\$2.75 per dozen.

Funkia Variegated—Foliage very attractive as a border plant. Planted for its fine variegated leaf. Has flower stem about a foot high; flowers blue. Not so much for the bloom as for its beautiful foliage, @ 25c each—\$2.75 per dozen.

Buddleia or Butterfly Bush—A plant which is extremely advertised. A Summer blooming lilac. Strong blossoming plants, @ 75c each.

Tritoma or Red Hot Poker—One of the most flashy, 18-24 inches in height, with a long head of scarlet flowers. When open changing to yellow. Blooming size plants @ 35c each—\$4.00 per dozen.

